



Plot 7-79. Lower Band Edge Plot (LTE Band 26/5 – 1.4MHz QPSK – Full RB)



Plot 7-80. Upper Band Edge Plot (LTE Band 26/5 - 1.4MHz QPSK - Full RB)

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#### NR Band n26/5



Plot 7-81. Lower Band Edge Plot (NR Band n26/5 - 20.0MHz - Full RB)



Plot 7-82. Upper Band Edge Plot (NR Band n26/5 - 20.0MHz - Full RB)

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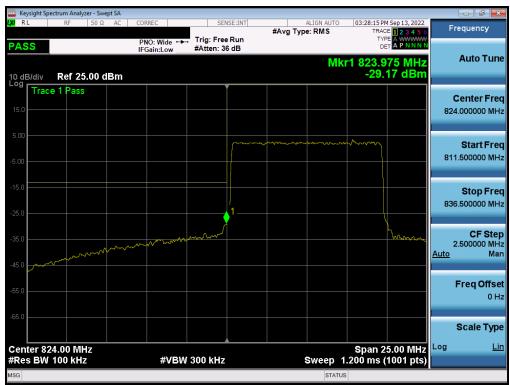
Plot 7-83. Lower Band Edge Plot (NR Band n26/5 – 15.0MHz - Full RB)



Plot 7-84. Upper Band Edge Plot (NR Band n26/5 - 15.0MHz - Full RB)

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Plot 7-85. Lower Band Edge Plot (NR Band n26/5 – 10.0MHz - Full RB)



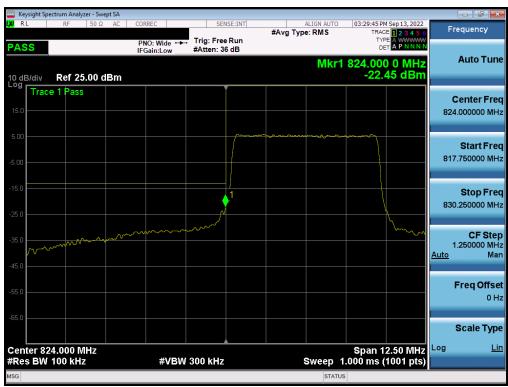
Plot 7-86. Upper Band Edge Plot (NR Band n26/5 - 10.0MHz - Full RB)

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Plot 7-87. Lower Band Edge Plot (NR Band n26/5 - 5.0MHz - Full RB)



Plot 7-88. Upper Band Edge Plot (NR Band n26/5 - 5.0MHz - Full RB)

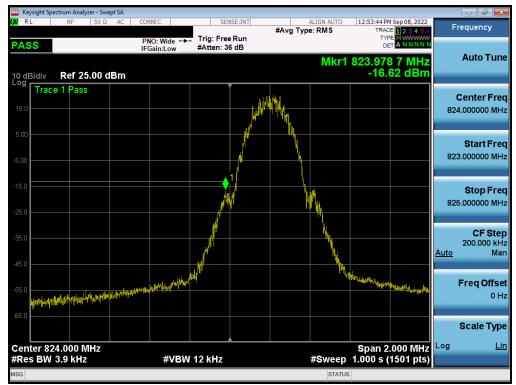
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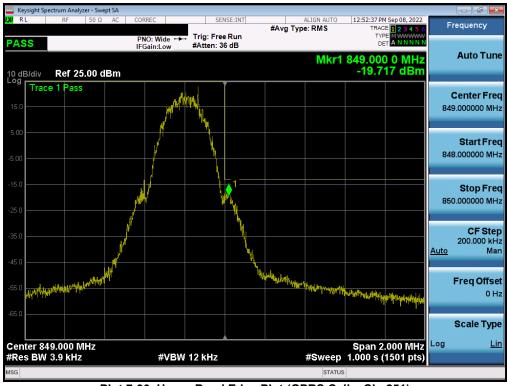
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## **GSM/GPRS Cell**



Plot 7-89. Lower Band Edge Plot (GPRS Cell - Ch. 128)



Plot 7-90. Upper Band Edge Plot (GPRS Cell - Ch. 251)

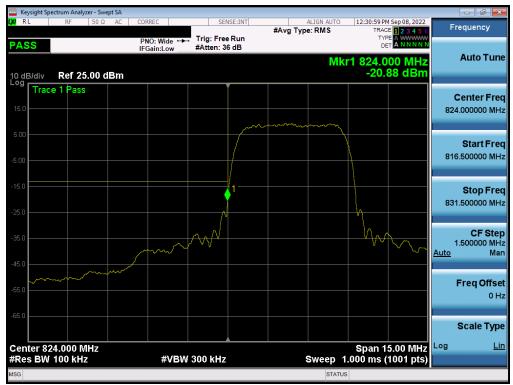
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## **WCDMA Cell**



Plot 7-91. Lower Band Edge Plot (WCDMA Cell - Ch. 4132)



Plot 7-92. Upper Band Edge Plot (WCDMA Cell - Ch. 4233)

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## 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 x RBW
- 4. Span = 1.5 times the OBW
- 5. No. of sweep points ≥ 2 x span / RBW
- 6. Detector = RMS
- 7. Trigger is set to "free run" for signals with continuous operation with the sweep times set to "auto". Trigger is set to enable triggering only on full power bursts with the sweep time set less than or equal to the transmission burst duration.
- 8. The integration bandwidth was roughly set equal to the measured OBW of the signal for signals with continuous operation. For signals with burst transmission, the "gating" function was enabled to ensure that measurements are performed during times in which the transmitter is operating at its maximum power.
- 9. Trace mode = trace averaging (RMS) over 100 sweeps
- 10. The trace was allowed to stabilize.

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#### **Test Setup**

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

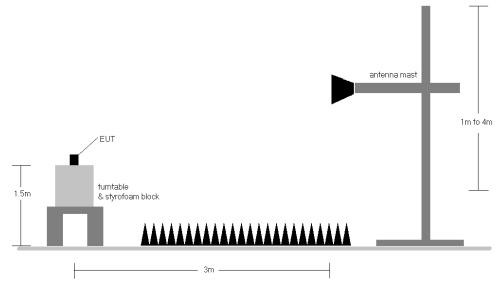


Figure 7-5. Radiated Test Setup < 1GHz

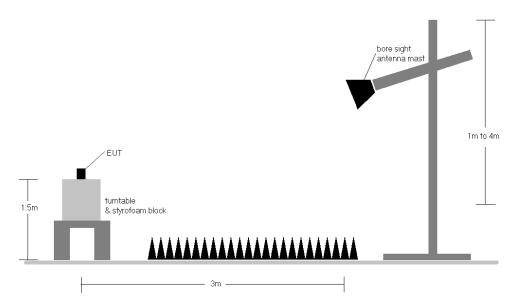


Figure 7-6. Radiated Test Setup > 1GHz

#### **Test Notes**

- 1) This device employs GSM, GPRS, and EDGE capabilities. The EUT was tested under all configurations and the highest powers are reported in GPRS mode while transmitting with one slot active.
- 2) This device employs UMTS technology with WCDMA (AMR/RMC) and HSDPA capabilities. The EUT was tested under all configurations and the highest powers are reported in WCDMA mode with HSDPA Inactive at 12.2 kbps RMC and TPC bits all set to "1".

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- 3) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst-case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 4) This unit was tested with its standard battery.
- 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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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 [W atts]	EIRP Limit [dBm]	Margin [dB]
15MHz	QPSK	831.5	V	144	89	1.29	1 / 37	22.37	21.51	0.141	38.45	-16.94	23.66	0.232	40.61	-16.95
(Band 26	QPSK	836.5	V	148	115	1.31	1 / 0	22.21	21.37	0.137	38.45	-17.08	23.52	0.225	40.61	-17.09
only)	QPSK	841.5	V	136	74	1.33	1 / 0	21.45	20.63	0.116	38.45	-17.82	22.78	0.190	40.61	-17.82
Offig)	16-QAM	836.5	V	148	115	1.31	1/0	21.27	20.43	0.110	38.45	-18.02	22.58	0.181	40.61	-18.03
	QPSK	829.0	V	144	89	1.27	1 / 25	22.77	21.89	0.155	38.45	-16.56	24.04	0.254	40.61	-16.57
10 MHz	QPSK	836.5	V	148	115	1.31	1 / 25	22.37	21.53	0.142	38.45	-16.92	23.68	0.234	40.61	-16.92
10 111112	QPSK	844.0	V	136	74	1.35	1 / 0	21.68	20.87	0.122	38.45	-17.58	23.02	0.201	40.61	-17.58
	16-QAM	836.5	V	148	115	1.31	1 / 25	21.53	20.69	0.117	38.45	-17.76	22.84	0.192	40.61	-17.77
	QPSK	826.5	V	144	89	1.26	1 / 24	22.55	21.67	0.147	38.45	-16.79	23.82	0.241	40.61	-16.79
5 MHz	QPSK	836.5	V	148	115	1.31	1 / 12	22.40	21.56	0.143	38.45	-16.89	23.71	0.235	40.61	-16.90
0 111112	QPSK	846.5	V	136	74	1.36	1 / 24	21.65	20.86	0.122	38.45	-17.59	23.01	0.200	40.61	-17.60
	16-QAM	836.5	V	148	115	1.31	1 / 12	21.68	20.84	0.121	38.45	-17.61	22.99	0.199	40.61	-17.61
	QPSK	825.5	V	144	89	1.26	1 / 14	22.61	21.72	0.149	38.45	-16.73	23.87	0.244	40.61	-16.74
3 MHz	QPSK	836.5	V	148	115	1.31	1 / 14	22.41	21.57	0.144	38.45	-16.88	23.72	0.236	40.61	-16.89
0 1111 12	QPSK	847.5	V	136	74	1.36	1 / 0	21.68	20.90	0.123	38.45	-17.56	23.05	0.202	40.61	-17.56
	16-QAM	836.5	V	148	115	1.31	1 / 14	21.50	20.66	0.116	38.45	-17.79	22.81	0.191	40.61	-17.79
	QPSK	824.7	V	144	89	1.25	1/5	22.54	21.65	0.146	38.45	-16.81	23.80	0.240	40.61	-16.81
1.4 MHz	QPSK	836.5	V	148	115	1.31	1 / 0	22.29	21.45	0.140	38.45	-17.00	23.60	0.229	40.61	-17.01
1.4 101112	QPSK	848.3	V	136	74	1.37	1/3	21.62	20.83	0.121	38.45	-17.62	22.98	0.199	40.61	-17.62
	16-QAM	836.5	V	148	115	1.31	1/0	21.47	20.63	0.116	38.45	-17.82	22.78	0.190	40.61	-17.83
15MHz	QPSK (Opposite Pol.)	831.5	Н	395	76	1.29	1 / 37	17.49	16.63	0.046	38.45	-21.82	18.78	0.076	40.61	-21.83
TOWITIZ	QPSK (WCP)	831.5	V	132	68	1.29	1 / 37	18.52	17.66	0.058	38.45	-20.79	19.81	0.096	40.61	-20.80

## Table 7-8. ERP Data (LTE Band 26/5)

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 [W atts]	EIRP Limit [dBm]	Margin [dB]
	π/2 BPSK	834.0	V	139	99	6.15	1 / 53	16.82	20.82	0.121	38.45	-17.63	22.97	0.198	40.61	-17.63
	π/2 BPSK	836.5	V	139	101	6.18	1 / 26	16.79	20.82	0.121	38.45	-17.63	22.97	0.198	40.61	-17.64
	π/2 BPSK	839.0	V	142	105	6.30	1 / 53	16.92	21.07	0.128	38.45	-17.38	23.22	0.210	40.61	-17.38
20 MHz	QPSK	834.0	V	139	99	6.15	1 / 53	16.67	20.67	0.117	38.45	-17.78	22.82	0.192	40.61	-17.78
	QPSK	836.5	V	139	101	6.18	1 / 26	16.56	20.59	0.115	38.45	-17.86	22.74	0.188	40.61	-17.87
	QPSK	839.0	V	142	105	6.30	1 / 53	16.58	20.73	0.118	38.45	-17.72	22.88	0.194	40.61	-17.72
	16-QAM	834.0	V	139	99	6.15	1 / 53	15.96	19.96	0.099	38.45	-18.49	22.11	0.163	40.61	-18.49
	π/2 BPSK	831.5	V	139	99	1.29	1 / 20	21.79	20.93	0.124	38.45	-17.52	23.08	0.203	40.61	-17.53
	π/2 BPSK	836.5	V	139	101	1.31	1 / 20	21.72	20.88	0.122	38.45	-17.58	23.03	0.201	40.61	-17.58
	π/2 BPSK	841.5	V	142	105	1.33	1 / 20	21.88	21.06	0.128	38.45	-17.39	23.21	0.209	40.61	-17.40
15 MHz	QPSK	831.5	V	139	99	1.29	1 / 20	21.78	20.91	0.123	38.45	-17.54	23.06	0.202	40.61	-17.54
	QPSK	836.5	V	139	101	1.31	1 / 20	21.40	20.56	0.114	38.45	-17.90	22.71	0.186	40.61	-17.90
	QPSK	841.5	V	142	105	1.33	1 / 20	21.71	20.89	0.123	38.45	-17.56	23.04	0.202	40.61	-17.56
	16-QAM	836.5	V	139	101	1.31	1 / 20	20.85	20.01	0.100	38.45	-18.44	22.16	0.165	40.61	-18.44
	π/2 BPSK	829.0	V	139	99	1.27	1 / 38	21.63	20.76	0.119	38.45	-17.69	22.91	0.195	40.61	-17.70
	π/2 BPSK	836.5	V	139	101	1.31	1 / 13	21.53	20.69	0.117	38.45	-17.76	22.84	0.192	40.61	-17.77
	π/2 BPSK	844.0	V	142	105	1.35	1 / 13	21.76	20.95	0.125	38.45	-17.50	23.10	0.204	40.61	-17.50
10 MHz	QPSK	829.0	V	139	99	1.27	1 / 13	21.35	20.47	0.112	38.45	-17.98	22.62	0.183	40.61	-17.98
	QPSK	836.5	V	139	101	1.31	1 / 38	21.27	20.43	0.111	38.45	-18.02	22.58	0.181	40.61	-18.02
	QPSK	844.0	V	142	105	1.35	1 / 13	21.50	20.70	0.117	38.45	-17.75	22.85	0.193	40.61	-17.76
	16-QAM	836.5	V	139	101	1.31	1 / 13	20.90	20.06	0.102	38.45	-18.39	22.21	0.167	40.61	-18.39
	π/2 BPSK	829.0	٧	139	99	1.26	1 / 18	21.63	20.74	0.119	38.45	-17.71	22.89	0.194	40.61	-17.72
	π/2 BPSK	836.5	V	139	101	1.31	1 / 12	21.49	20.65	0.116	38.45	-17.80	22.80	0.190	40.61	-17.81
	π/2 BPSK	844.0	V	142	105	1.36	1/6	21.72	20.93	0.124	38.45	-17.52	23.08	0.203	40.61	-17.53
5 MHz	QPSK	829.0	V	139	99	1.26	1 / 12	21.52	20.63	0.116	38.45	-17.82	22.78	0.190	40.61	-17.83
	QPSK	836.5	V	139	101	1.31	1/6	21.23	20.39	0.110	38.45	-18.06	22.54	0.180	40.61	-18.06
	QPSK	844.0	V	142	105	1.36	1 / 18	21.42	20.63	0.116	38.45	-17.82	22.78	0.190	40.61	-17.83
	16-QAM	836.5	V	139	101	1.31	1/6	20.86	20.03	0.101	38.45	-18.43	22.18	0.165	40.61	-18.43
	QPSK (CP-OFDM)	839.0	V	142	105	6.30	1 / 26	15.06	19.21	0.083	38.45	-19.24	21.36	0.137	40.61	-19.24
20 MHz	QPSK (Opposite Pol.)	839.0	Н	205	60	6.80	1 / 26	14.87	19.52	0.090	38.45	-18.93	21.67	0.147	40.61	-18.93
	QPSK (WCP)	839.0	V	142	105	6.30	1 / 26	10.88	15.03	0.032	38.45	-23.42	17.18	0.052	40.61	-23.42

## Table 7-9. ERP Data (NR Band n26/5)

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	٧	147	58	31.00	1.25	30.10	1.023	38.45	-8.35	32.25	1.679	40.61	-8.36
836.60	GSM850	V	131	95	28.59	1.31	27.75	0.596	38.45	-10.70	29.90	0.977	40.61	-10.71
848.80	GSM850	V	124	84	28.84	1.37	28.06	0.640	38.45	-10.39	30.21	1.049	40.61	-10.40
824.20	GSM850	Н	391	73	26.76	1.25	25.86	0.386	38.45	-12.59	28.01	0.633	40.61	-12.60
824.20	EDGE850	V	147	58	26.00	1.25	25.10	0.324	38.45	-13.35	27.25	0.531	40.61	-13.36
824.20	GSM850 (WCP)	V	125	73	26.98	1.25	26.08	0.406	38.45	-12.37	28.23	0.665	40.61	-12.38

## Table 7-10. ERP Data (GPRS Cell)

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	V	144	112	22.01	1.26	21.12	0.129	38.45	-17.33	23.27	0.212	40.61	-17.34
836.60	WCDMA850	V	137	105	20.91	1.31	20.07	0.102	38.45	-18.38	22.22	0.167	40.61	-18.39
846.60	WCDMA850	V	128	88	20.55	1.36	19.76	0.095	38.45	-18.69	21.91	0.155	40.61	-18.70
826.40	WCDMA850	Н	225	82	17.93	1.26	17.04	0.051	38.45	-21.41	19.19	0.083	40.61	-21.42
826.40	WCDMA850 (WCP)	V	149	83	18.59	1.26	17.70	0.059	38.45	-20.75	19.85	0.097	40.61	-20.76

## Table 7-11. ERP Data (WCDMA Cell)

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## 7.7 Radiated Spurious Emissions Measurements

#### **Test Overview**

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

#### **Test Procedures Used**

ANSI C63.26-2015 - Section 5.5.4

#### **Test Settings**

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

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#### **Test Setup**

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

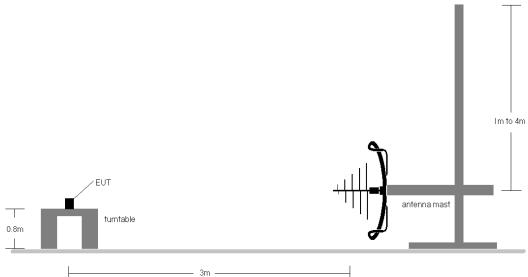


Figure 7-7. Test Instrument & Measurement Setup < 1GHz

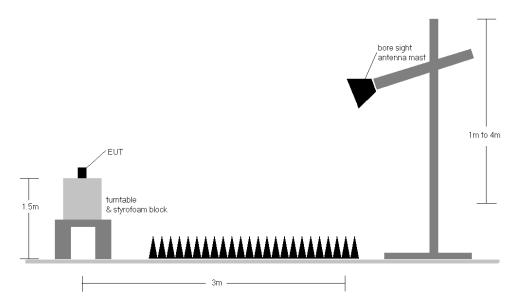


Figure 7-8. Test Instrument & Measurement Setup > 1GHz

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V3.0 1/4/2022

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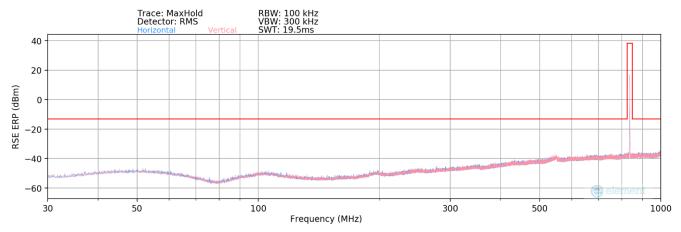
#### **Test Notes**

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

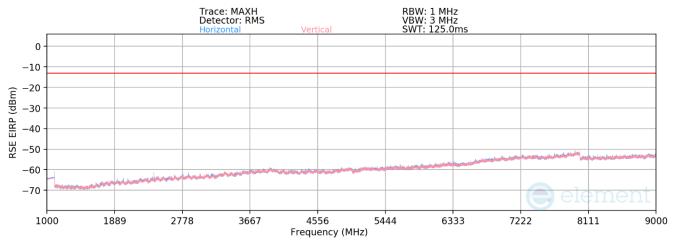
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## LTE Band 26/5



Plot 7-93. Radiated Spurious Plot (LTE Band 26/5 – Below 1GHz)



Plot 7-94. Radiated Spurious Plot (LTE Band 26/5 – Above 1GHz)

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]
446.24	Н	-	-	-79.31	17.83	45.52	-49.74	-13.00	-36.74
549.04	Н	-	-	-78.51	19.67	48.16	-47.10	-13.00	-34.10
884.37	Н	-	-	-80.47	24.80	51.33	-43.93	-13.00	-30.93

Table 7-12. Radiated Spurious Data (LTE Band 26/5 - Below 1GHz)

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Bandwidth (MHz):	10
Frequency (MHz):	829
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]
1658.00	Н	115	125	-74.40	-7.67	24.93	-70.33	-13.00	-57.33
2487.00	Н	110	141	-74.25	-4.23	28.52	-66.74	-13.00	-53.74
3316.00	Н	-	-	-77.30	-0.82	28.88	-66.38	-13.00	-53.38
4145.00	Н	-	-	-78.20	0.75	29.55	-65.70	-13.00	-52.70
4974.00	Н	-	-	-77.98	1.57	30.59	-64.67	-13.00	-51.67
5803.00	Н	-	-	-78.95	4.09	32.14	-63.12	-13.00	-50.12

## Table 7-13. Radiated Spurious Data (LTE Band 26/5 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	836.5
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1673.00	Н	101	116	-75.06	-7.63	24.31	-70.94	-13.00	-57.94
2509.50	Н	101	139	-74.24	-4.17	28.59	-66.67	-13.00	-53.67
3346.00	Н	-	-	-76.89	-0.95	29.16	-66.09	-13.00	-53.09
4182.50	Н	-	-	-77.53	0.38	29.85	-65.40	-13.00	-52.40
5019.00	Н	-	ı	-78.00	1.28	30.28	-64.97	-13.00	-51.97
5855.50	Н	-	-	-79.51	4.36	31.85	-63.40	-13.00	-50.40

## Table 7-14. Radiated Spurious Data (LTE Band 26/5 - Mid Channel)

Bandwidth (MHz):	10
Frequency (MHz):	844
RB / Offset:	1 / 50

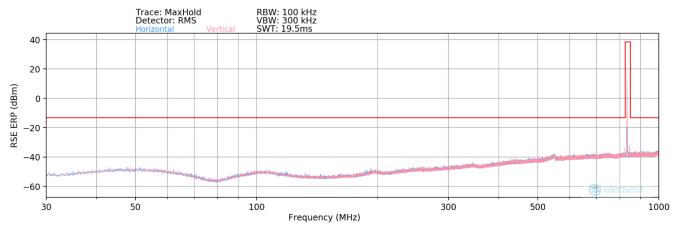
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1688.00	Н	110	145	-75.26	-7.50	24.24	-71.02	-13.00	-58.02
2532.00	Н	106	138	-72.52	-4.17	30.31	-64.95	-13.00	-51.95
3376.00	Н	-	-	-77.68	-1.05	28.27	-66.98	-13.00	-53.98
4220.00	Н	-	-	-77.88	0.51	29.63	-65.63	-13.00	-52.63
5064.00	Н	-	-	-77.61	1.63	31.02	-64.24	-13.00	-51.24
5908.00	Н	-	-	-79.57	4.07	31.50	-63.75	-13.00	-50.75

Table 7-15. Radiated Spurious Data (LTE Band 26/5 – High Channel)

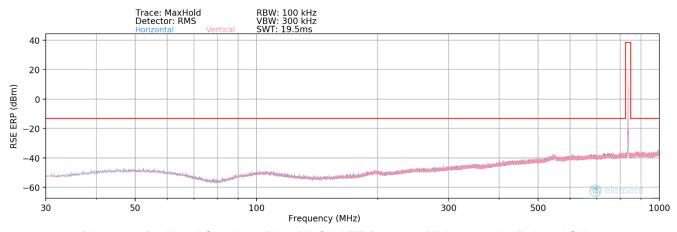
FCC ID: A3LSMS918U	PART 22 MEASUREMENT REPORT Approved Technical I			
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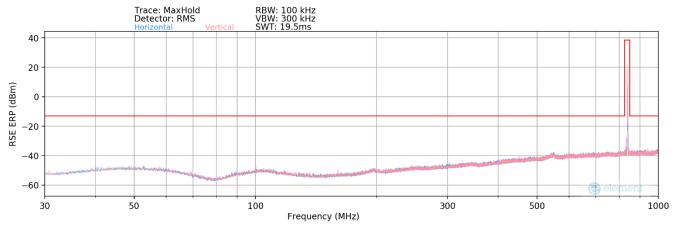
## **ULCA LTE Band 5**



Plot 7-95. Radiated Spurious Plot (ULCA LTE Band 5 - Low channel - Below 1GHz)



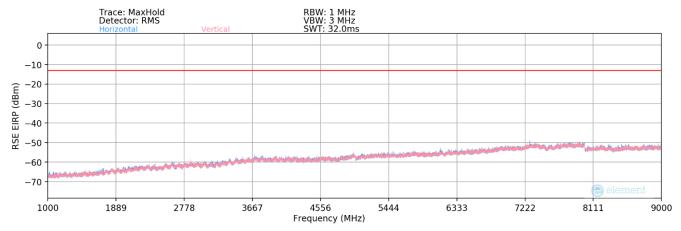
Plot 7-96. Radiated Spurious Plot (ULCA LTE Band 5 - Mid channel - Below 1GHz)



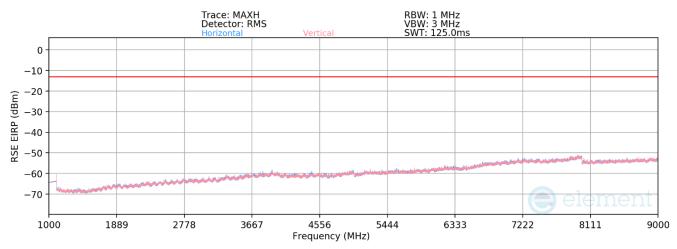
Plot 7-97. Radiated Spurious Plot (ULCA LTE Band 5 - High channel - Below 1GHz)

FCC ID: A3LSMS918U	PART 22 MEASUREMENT REPORT  Approved Technical I			
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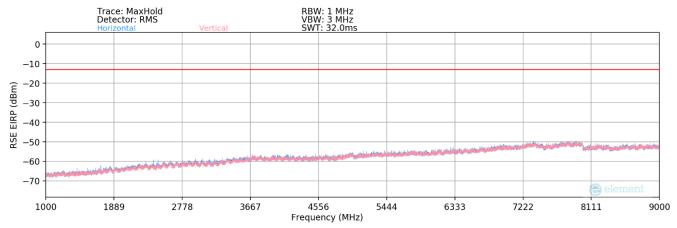




Plot 7-98. Radiated Spurious Plot (ULCA LTE Band 5 - Low channel – Above 1GHz)



Plot 7-99. Radiated Spurious Plot (ULCA LTE Band 5 - Mid channel – Above 1GHz)



Plot 7-100. Radiated Spurious Plot (ULCA LTE Band 5 - High channel - Above 1GHz)

FCC ID: A3LSMS918U	PART 22 MEASUREMENT REPORT  Approved by: Technical Mana			
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PCC Bandwidth (MHz):	10
PCC Frequency (MHz):	831.5
PCC RB / Offset:	1 / 49
SCC Bandwidth (MHz):	10
SCC Frequency (MHz):	841.4
SCC RB / Offset:	1/0

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]
457.51	V	-	-	-79.31	17.92	45.61	-49.64	-13.00	-36.64
556.87	V	-	-	-78.66	19.90	48.24	-47.02	-13.00	-34.02
985.69	V	-	-	-80.56	25.63	52.07	-43.19	-13.00	-30.19

## Table 7-16. Radiated Spurious Data (ULCA LTE Band 5 – Below 1GHz)

İ	1
PCC Bandwidth (MHz):	10
PCC Frequency (MHz):	829.0
PCC RB / Offset:	1 / 49
SCC Bandwidth (MHz):	10
SCC Frequency (MHz):	838.9
SCC RB / Offset:	1/0

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1658.00	V	-	-	-74.67	-7.69	24.64	-70.62	-13.00	-57.62
2487.00	V	400	171	-73.60	-4.28	29.12	-66.14	-13.00	-53.14
3316.00	V	-	-	-76.54	-0.82	29.64	-65.62	-13.00	-52.62
4145.00	V	-	-	-77.34	0.76	30.42	-64.83	-13.00	-51.83
4974.00	V	-	ı	-76.90	1.42	31.52	-63.73	-13.00	-50.73
5803.00	V	-	-	-77.96	3.82	32.86	-62.39	-13.00	-49.39

## Table 7-17. Radiated Spurious Data (ULCA LTE Band 5 – Low Channel)

PCC Bandwidth (MHz):	10
PCC Frequency (MHz):	831.5
PCC RB / Offset:	1 / 49
SCC Bandwidth (MHz):	10
SCC Frequency (MHz):	841.4
SCC RB / Offset:	1/0

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	-	-	-75.07	-7.67	24.26	-71.00	-13.00	-58.00
2494.50	V	400	164	-73.21	-4.23	29.56	-65.70	-13.00	-52.70
3326.00	V	-	-	-76.21	-0.82	29.97	-65.29	-13.00	-52.29
4157.50	V	-	-	-77.15	0.75	30.60	-64.65	-13.00	-51.65
4989.00	V	-	-	-77.09	1.57	31.48	-63.78	-13.00	-50.78
5820.50	V	-	-	-78.05	4.09	33.04	-62.22	-13.00	-49.22

Table 7-18. Radiated Spurious Data (ULCA LTE Band 5 – Mid Channel)

FCC ID: A3LSMS918U		Approved by: Technical Manager	
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PCC Bandwidth (MHz):	10
PCC Frequency (MHz):	844.0
PCC RB / Offset:	1/0
SCC Bandwidth (MHz):	10
SCC Frequency (MHz):	834.1
SCC RB / Offset:	1 / 49

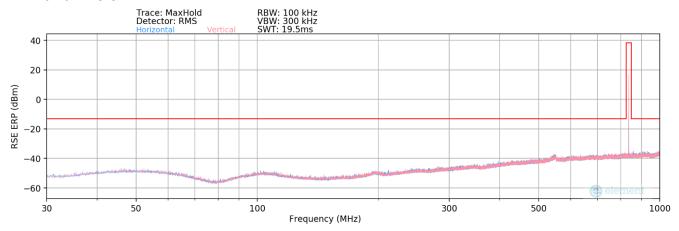
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1688.00	V	-	-	-75.59	-7.43	23.98	-71.27	-13.00	-58.27
2532.00	V	394	169	-72.18	-4.15	30.67	-64.58	-13.00	-51.58
3376.00	V	-	1	-76.84	-0.94	29.22	-66.04	-13.00	-53.04
4220.00	V	-	-	-76.89	0.57	30.68	-64.58	-13.00	-51.58
5064.00	V	-	ı	-76.99	1.70	31.71	-63.55	-13.00	-50.55
5908.00	V	-	-	-78.25	4.17	32.92	-62.34	-13.00	-49.34

Table 7-19. Radiated Spurious Data (ULCA LTE Band 5 – High Channel)

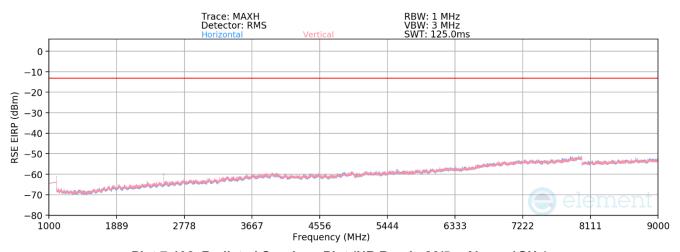
FCC ID: A3LSMS918U		PART 22 MEASUREMENT REPORT	Approved by:	
FCC ID. ASLSMS9160		PART 22 MEASUREMENT REPORT	Technical Manager	
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## NR Band n26/5



Plot 7-101. Radiated Spurious Plot (NR Band n26/5 – Below 1GHz)



Plot 7-102. Radiated Spurious Plot (NR Band n26/5 – Above 1GHz)

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

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]
279.09	V	-	-	-82.18	14.34	39.16	-56.10	-13.00	-43.10
548.40	V	-	-	-78.92	19.66	47.74	-47.52	-13.00	-34.52
911.24	V	-	-	-81.45	25.16	50.71	-44.55	-13.00	-31.55

Table 7-20. Radiated Spurious Data (NR Band n26/5 – Below 1GHz)

FCC ID: A3LSMS918U		Approved by: Technical Manager		
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Bandwidth (MHz):	20
Frequency (MHz):	834
RB / Offset:	1 / 53
Mode:	Stand Alone

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	Н	-	=	-75.83	-7.65	23.52	-71.74	-13.00	-58.74
2502.00	Н	115	306	-74.52	-4.17	28.31	-66.95	-13.00	-53.95
3336.00	Н	-	=	-76.93	-0.86	29.21	-66.05	-13.00	-53.05
4170.00	Н	-	-	-77.81	0.56	29.75	-65.51	-13.00	-52.51
5004.00	Н	-	-	-77.75	1.23	30.48	-64.77	-13.00	-51.77
5838.00	Н	-	-	-78.88	4.15	32.27	-62.98	-13.00	-49.98

## Table 7-21. Radiated Spurious Data (NR Band n26/5 – Low Channel)

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

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	Н	-	-	-75.31	-7.63	24.06	-71.19	-13.00	-58.19
2509.50	Н	113	318	-71.37	-4.17	31.46	-63.80	-13.00	-50.80
3346.00	Н	-	-	-75.71	-0.95	30.34	-64.91	-13.00	-51.91
4182.50	Н	-	-	-76.44	0.38	30.94	-64.31	-13.00	-51.31
5019.00	Н	-	-	-77.03	1.28	31.25	-64.00	-13.00	-51.00
5855.50	Н	-	-	-78.50	4.36	32.86	-62.39	-13.00	-49.39

## Table 7-22. Radiated Spurious Data (NR Band n26/5 - Mid Channel)

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

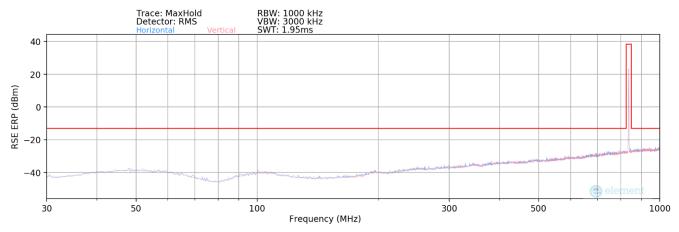
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1678.00	Н	-	-	-76.19	-7.57	23.24	-72.02	-13.00	-59.02
2517.00	Н	114	311	-74.62	-4.18	28.20	-67.06	-13.00	-54.06
3356.00	Н	-	-	-77.03	-1.00	28.97	-66.29	-13.00	-53.29
4195.00	Н	-	-	-77.22	0.26	30.04	-65.22	-13.00	-52.22
5034.00	Н	-	-	-77.58	1.50	30.92	-64.34	-13.00	-51.34
5873.00	Н	-	-	-79.35	4.29	31.94	-63.31	-13.00	-50.31

Table 7-23. Radiated Spurious Data (NR Band n26/5 - High Channel)

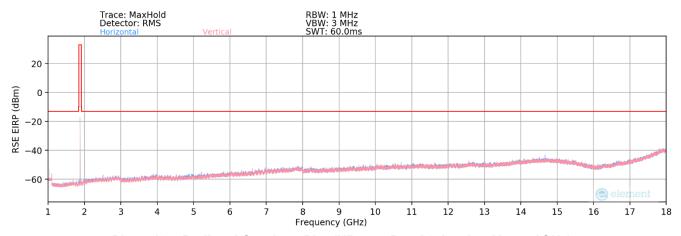
FCC ID: A3LSMS918U		Approved by: Technical Manager	
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## EN-DC NR n5 - LTE Band 2 (Ant A)



Plot 7-103. Radiated Spurious Plot (NR n5 – Band 2 Ant A – Below 1GHz)



Plot 7-104. Radiated Spurious Plot (NR n5 - Band 2 Ant A - Above 1GHz)

Bandwidth (MHz):	20 / 20
Frequency (MHz):	836.5 / 1880
RB / Offset:	1/53 / 1/50
Anchor Band:	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]
207.00	Н	-	-	-72.77	11.97	46.20	-49.06	-13.00	-36.06
422.50	Н	-	-	-71.28	17.77	53.49	-41.76	-13.00	-28.76
621.00	Н	-	-	-69.94	20.99	58.05	-37.21	-13.00	-24.21

Table 7-24. Radiated Spurious Data (NR n5 - Band 2 Ant A - Below 1GHz)

FCC ID: A3LSMS918U		Approved by: Technical Manager	
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Bandwidth (MHz):	20 / 20
Frequency (MHz):	836.5 / 1880
RB / Offset:	1/53 / 1/50
Mode:	EN-DC
Anchor Band:	2

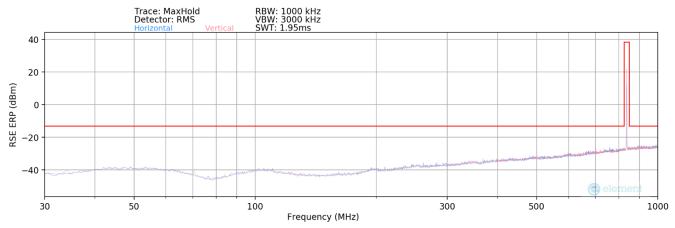
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1250.50	Н	-	-	-74.76	-9.05	23.19	-72.06	-13.00	-59.06
1466.00	Н	-	-	-74.19	-9.19	23.62	-71.64	-13.00	-58.64
2923.50	Н	400	308	-75.41	-3.56	28.03	-67.23	-13.00	-54.23
3553.00	Н	-	-	-76.90	-0.88	29.22	-66.04	-13.00	-53.04
4596.50	Н	-	-	-76.95	0.36	30.41	-64.85	-13.00	-51.85

Table 7-25. Radiated Spurious Data (NR n5 – Band 2 Ant A)

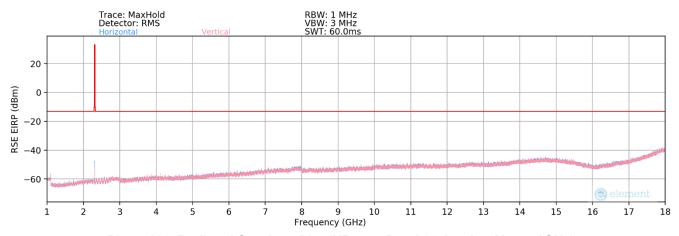
FCC ID: A3LSMS918U		Approved by: Technical Manager		
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# EN-DC NR n5 - LTE Band 30 (Ant A)



Plot 7-105. Radiated Spurious Plot (NR n5 – Band 30 Ant A – Below 1GHz)



Plot 7-106. Radiated Spurious Plot (NR n5 – Band 30 Ant A – Above 1GHz)

Bandwidth (MHz):	20 / 10
Frequency (MHz):	836.5 / 2310
RB / Offset:	1/53 / 1/25
Mode:	EN-DC
Anchor Band:	30

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]
399.00	V	-	-	-71.55	17.30	52.75	-42.50	-13.00	-29.50
437.50	V	-	-	-71.09	17.84	53.75	-41.50	-13.00	-28.50
637.00	V	-	-	-69.64	21.04	58.40	-36.86	-13.00	-23.86

Table 7-26. Radiated Spurious Data (NR n5 - Band 30 Ant A - Below 1GHz)

FCC ID: A3LSMS918U		Approved by: Technical Manager		
Test Report S/N:	Test Dates:	EUT Type:	Dogg 04 of 101	
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Bandwidth (MHz):	20 / 10
Frequency (MHz):	836.5 / 2310
RB / Offset:	1/53 / 1/25
Mode:	EN-DC
Anchor Band:	30

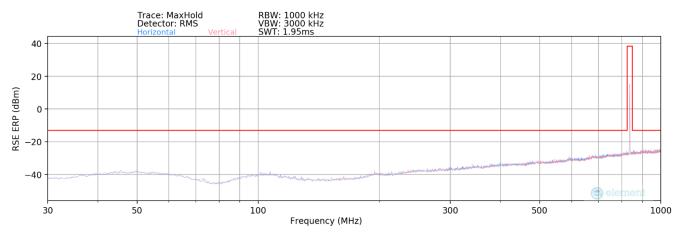
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3584.00	Н	-	-	-77.66	-0.59	28.75	-66.51	-40.00	-26.51
3783.50	Н	163	20	-73.96	0.31	33.35	-61.91	-40.00	-21.91
3983.00	Н	170	38	-77.20	1.67	31.47	-63.79	-40.00	-23.79
4382.00	Н	-	-	-77.92	0.37	29.45	-65.80	-40.00	-25.80
5456.50	Н	-	-	-78.57	2.99	31.42	-63.84	-40.00	-23.84

Table 7-27. Radiated Spurious Data (NR n5 - Band 30 Ant A)

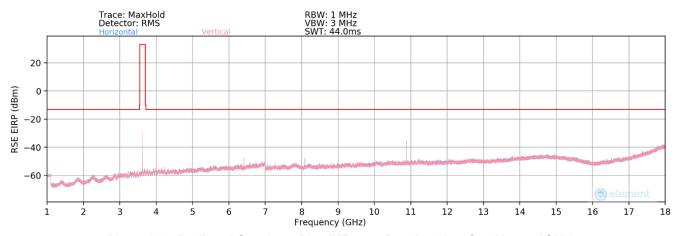
FCC ID: A3LSMS918U		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Page 85 of 101
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## EN-DC NR n5 - Band 48 (Ant G)



Plot 7-107. Radiated Spurious Plot (NR n5 – Band 48 Ant G – Below 1GHz)



Plot 7-108. Radiated Spurious Plot (NR n5 – Band 48 Ant G – Above 1GHz)

Bandwidth (MHz):	20 / 20
Frequency (MHz):	836.5 / 3625
RB / Offset	1/53 / 1/50
Mode:	EN-DC
Anchor Band:	48

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]
279.00	Н	-	-	-72.20	14.34	49.14	-46.12	-13.00	-33.12
557.50	Н	-	-	-69.22	19.90	57.68	-37.58	-13.00	-24.58
902.22	Н	-	-	-71.83	25.24	60.41	-34.85	-13.00	-21.85

Table 7-28. Radiated Spurious Data (NR n5 – Band 48 Ant G – Below 1GHz)

FCC ID: A3LSMS918U		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dogg 96 of 101
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Bandwidth (MHz):	20 / 20
Frequency (MHz):	836.5 / 3625
RB / Offset	1/53 / 1/50
Mode:	EN-DC
Anchor Band:	48

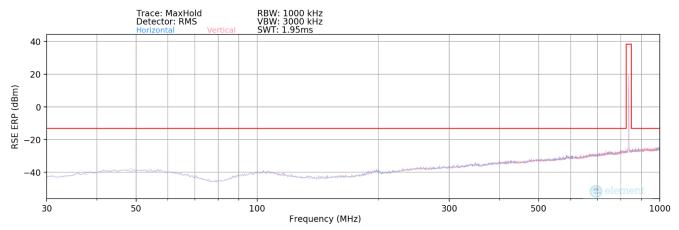
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1952.00	V	-	-	-75.52	-5.80	25.68	-69.58	-40.00	-29.58
4740.50	V	-	-	-77.29	1.09	30.80	-64.46	-40.00	-24.46
5298.00	V	-	-	-77.45	2.53	32.08	-63.18	-40.00	-23.18
6413.50	V	116	351	-74.23	4.99	37.76	-67.04	-40.00	-27.04
8086.50	V	142	10	-80.22	9.69	36.47	-68.33	-40.00	-28.33

Table 7-29. Radiated Spurious Data (NR n5 - Band 48 Ant G)

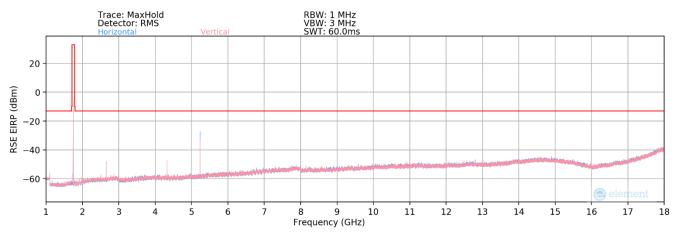
FCC ID: A3LSMS918U		Approved by: Technical Manager	
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# EN-DC NR n5 - LTE Band 66 (Ant F)



Plot 7-109. Radiated Spurious Plot (NR n5 - Band 66 Ant F - Below 1GHz)



Plot 7-110. Radiated Spurious Plot (NR n5 – Band 66 Ant F – Above 1GHz)

Bandwidth (MHz):	20 / 20
Frequency (MHz):	836.5 / 1745
RB / Offset:	1/53 / 1/50
Mode:	EN-DC
Anchor Band:	66

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]
72.00	Н	-	-	-73.28	9.52	43.24	-52.02	-13.00	-39.02
692.50	Н	-	-	-73.25	22.28	56.03	-39.23	-13.00	-26.23
980.50	Н	-	-	-72.86	25.52	59.66	-35.59	-13.00	-22.59

Table 7-30. Radiated Spurious Data (NR n5 - Band 66 Ant F - Below 1GHz)

FCC ID: A3LSMS918U		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dogg 00 of 101
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