

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]
10 MHz	QPSK	793.0	V	147	236	1.15	1 / 49	22.16	21.16	0.130	34.77	-13.62	23.31	0.214	40.61	-17.30
	16-QAM	793.0	V	147	236	1.15	1 / 49	21.05	20.05	0.101	34.77	-14.73	22.20	0.166	40.61	-18.41
5 MHz	QPSK	790.5	V	147	236	1.15	1 / 0	22.18	21.18	0.131	34.77	-13.59	23.33	0.215	40.61	-17.28
	QPSK	793.0	V	147	236	1.15	1 / 12	22.27	21.26	0.134	34.77	-13.51	23.41	0.219	40.61	-17.20
	QPSK	795.5	V	147	236	1.14	1 / 24	22.26	21.25	0.133	34.77	-13.52	23.40	0.219	40.61	-17.20
	16-QAM	793.0	V	147	236	1.15	1 / 12	21.15	20.15	0.103	34.77	-14.62	22.30	0.170	40.61	-18.31
10 MHz	QPSK (Opposite Pol.)	793.0	H	119	282	1.15	1 / 49	20.89	19.89	0.097	34.77	-14.89	22.04	0.160	40.61	-18.57
	QPSK (WCP)	793.0	V	146	337	1.15	1 / 25	17.99	16.99	0.050	34.77	-17.79	19.14	0.082	40.61	-21.47

Table 7-44. ERP Data (LTE Band 14)

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]
15 MHz	QPSK	821.5	V	155	255	1.24	1 / 74	20.68	19.77	0.095	38.45	-18.68	21.92	0.156	40.61	-18.69
	16-QAM	821.5	V	155	255	1.24	1 / 74	19.90	18.99	0.079	38.45	-19.46	21.14	0.130	40.61	-19.47
15 MHz	QPSK (Opposite Pol.)	821.5	H	115	289	1.24	1 / 74	19.42	18.51	0.071	38.45	-19.94	20.66	0.116	40.61	-19.95
	QPSK (WCP)	821.5	V	140	292	1.24	1 / 0	17.81	16.90	0.049	38.45	-21.55	19.05	0.080	40.61	-21.56

Table 7-45. ERP Data (LTE Band 26)

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	π/2 BPSK	824.00	V	145	263	1.25	1 / 104	19.54	18.64	0.073	38.45	-19.81	20.79	0.120	40.61	-19.82
	QPSK	824.00	V	145	263	1.25	1 / 104	19.52	18.62	0.073	38.45	-19.83	20.77	0.119	40.61	-19.84
	16-QAM	824.00	V	145	263	1.25	1 / 104	18.75	17.85	0.061	38.45	-20.60	20.00	0.100	40.61	-20.61
15 MHz	π/2 BPSK	821.50	V	148	271	1.24	1 / 77	19.34	18.43	0.070	38.45	-20.02	20.58	0.114	40.61	-20.03
	QPSK	821.50	V	148	271	1.24	1 / 77	19.42	18.51	0.071	38.45	-19.94	20.66	0.116	40.61	-19.95
	16-QAM	821.50	V	148	271	1.24	1 / 77	18.34	17.43	0.055	38.45	-21.02	19.58	0.091	40.61	-21.03
10 MHz	π/2 BPSK	819.00	V	148	271	1.23	1 / 26	19.36	18.44	0.070	38.45	-20.01	20.59	0.115	40.61	-20.02
	QPSK	819.00	V	148	271	1.23	1 / 26	19.51	18.59	0.072	38.45	-19.86	20.74	0.119	40.61	-19.87
	16-QAM	819.00	V	148	271	1.23	1 / 1	18.50	17.58	0.057	38.45	-20.87	19.73	0.094	40.61	-20.88
5 MHz	π/2 BPSK	816.50	V	148	271	1.21	1 / 12	19.41	18.47	0.070	38.45	-19.98	20.62	0.115	40.61	-19.99
	π/2 BPSK	821.50	V	148	271	1.24	1 / 23	19.36	18.45	0.070	38.45	-20.00	20.60	0.115	40.61	-20.01
	QPSK	816.50	V	148	271	1.21	1 / 23	19.41	18.47	0.070	38.45	-19.98	20.62	0.115	40.61	-19.99
20 MHz	QPSK	821.50	V	148	271	1.24	1 / 12	19.47	18.56	0.072	38.45	-19.89	20.71	0.118	40.61	-19.90
	16-QAM	821.50	V	148	271	1.24	1 / 23	18.46	17.55	0.057	38.45	-20.90	19.70	0.093	40.61	-20.91
	QPSK (CP-OFDM)	824.00	V	148	264	1.25	1 / 104	18.02	17.12	0.052	38.45	-21.33	19.27	0.085	40.61	-21.34
	QPSK (Opp. Pol.)	824.00	H	115	287	1.25	1 / 104	18.76	17.86	0.061	38.45	-20.59	20.01	0.100	40.61	-20.60
QPSK (WCP)	824.00	V	137	337	1.25	1 / 104	17.39	16.49	0.045	38.45	-21.96	18.64	0.073	40.61	-21.97	

Table 7-46. ERP Data (NR Band n26)

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7.7 Radiated Spurious Emissions Measurements

Test Overview

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

Test Procedures Used

ANSI C63.26-2015 – Section 5.5.4

Test Settings

1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
2. VBW \geq 3 x RBW
3. Span = 1.5 times the OBW
4. No. of sweep points \geq 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.

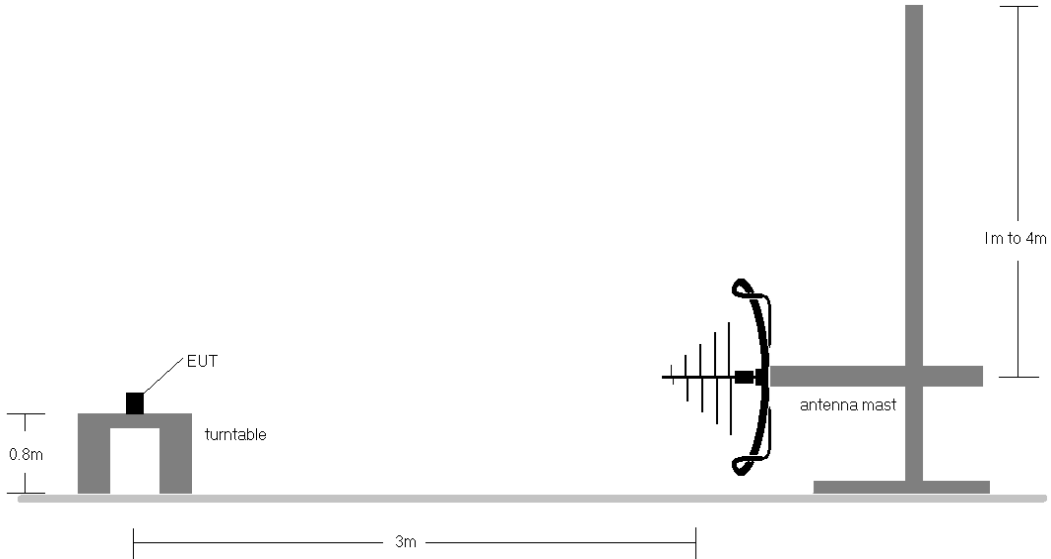


Figure 7-7. Test Instrument & Measurement Setup < 1GHz

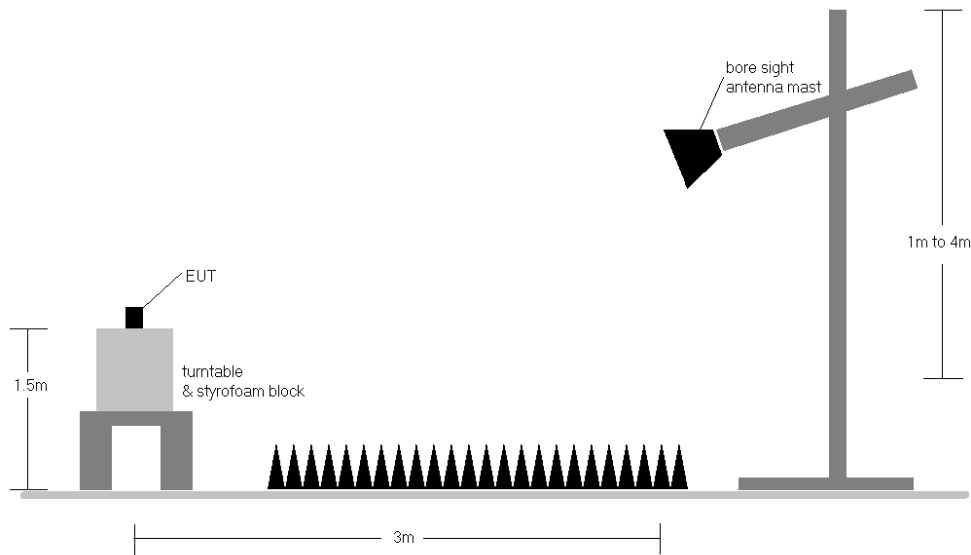


Figure 7-8. Test Instrument & Measurement Setup >1 GHz

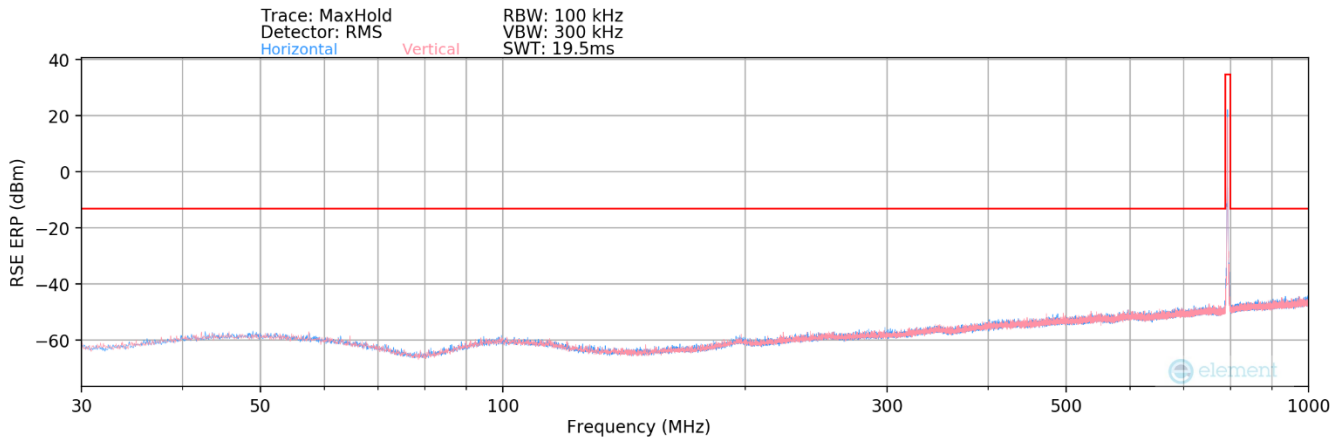
FCC ID: A3LSMS711U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Test Notes

- 1) Field strengths are calculated using the Measurement quantity conversions in ANSI C63.26-2015 Section 5.2.7:
 - a) $E(\text{dB}\mu\text{V}/\text{m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b) $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V}/\text{m}) + 20\log D - 104.8$; where D is the measurement distance in meters.
- 2) 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.
- 3) This unit was tested with its standard battery.
- 4) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 5) 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.
- 6) The "-" shown in the following RSE tables are used to denote a noise floor measurement.
- 7) 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 14

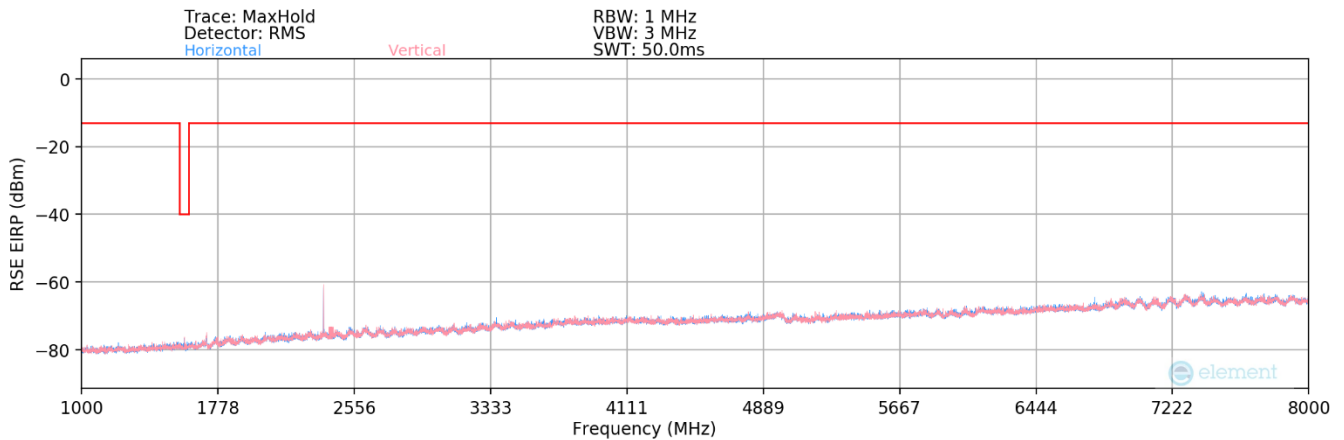


Plot 7-47. Radiated Spurious Plot Below 1GHz (LTE Band 14)

Bandwidth (MHz):	5
Frequency (MHz):	793
RB Config (Size / Offset):	1 / 12

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]
547.98	H	-	-	-105.98	25.29	26.31	-68.95	-13.00	-55.95
800.55	H	-	-	-105.82	29.06	30.24	-65.02	-13.00	-52.02
966.98	H	-	-	-105.57	30.78	32.21	-63.04	-13.00	-50.04

Table 7-9. Radiated Spurious Data Below 1GHz (LTE Band 14)



Plot 7-48. Radiated Spurious Plot Above 1GHz (LTE Band 14)

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Bandwidth (MHz):	5
Frequency (MHz):	790.5
RB Config (Size / Offset):	1 / 12

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]
1581.00	H	154	128	-71.80	-9.24	25.96	-69.29	-40.00	-29.29
2371.50	H	154	135	-58.79	-5.68	42.53	-52.73	-13.00	-39.73
3162.00	H	-	-	-76.08	-3.77	27.15	-68.10	-13.00	-55.10
3952.50	H	-	-	-75.33	-1.19	30.48	-64.78	-13.00	-51.78
4743.00	H	-	-	-76.07	-0.68	30.25	-65.00	-13.00	-52.00
5533.50	H	-	-	-76.45	1.36	31.91	-63.34	-13.00	-50.34
6324.00	H	-	-	-76.73	2.68	32.95	-62.30	-13.00	-49.30

Table 7-10. Radiated Spurious Data Above 1GHz (LTE Band 14 – Low Channel)

Bandwidth (MHz):	5
Frequency (MHz):	793
RB Config (Size / Offset):	1 / 12

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]
1586.00	H	144	128	-72.20	-9.23	25.57	-69.69	-40.00	-29.69
2379.00	H	129	128	-57.41	-5.70	43.89	-51.37	-13.00	-38.37
3172.00	H	-	-	-75.67	-3.66	27.67	-67.59	-13.00	-54.59
3965.00	H	-	-	-75.35	-1.26	30.39	-64.87	-13.00	-51.87
4758.00	H	-	-	-76.31	-0.51	30.18	-65.08	-13.00	-52.08
5551.00	H	-	-	-76.55	1.25	31.70	-63.56	-13.00	-50.56
6344.00	H	-	-	-77.31	3.03	32.72	-62.54	-13.00	-49.54

Table 7-11. Radiated Spurious Data Above 1GHz (LTE Band 14 – Mid Channel)

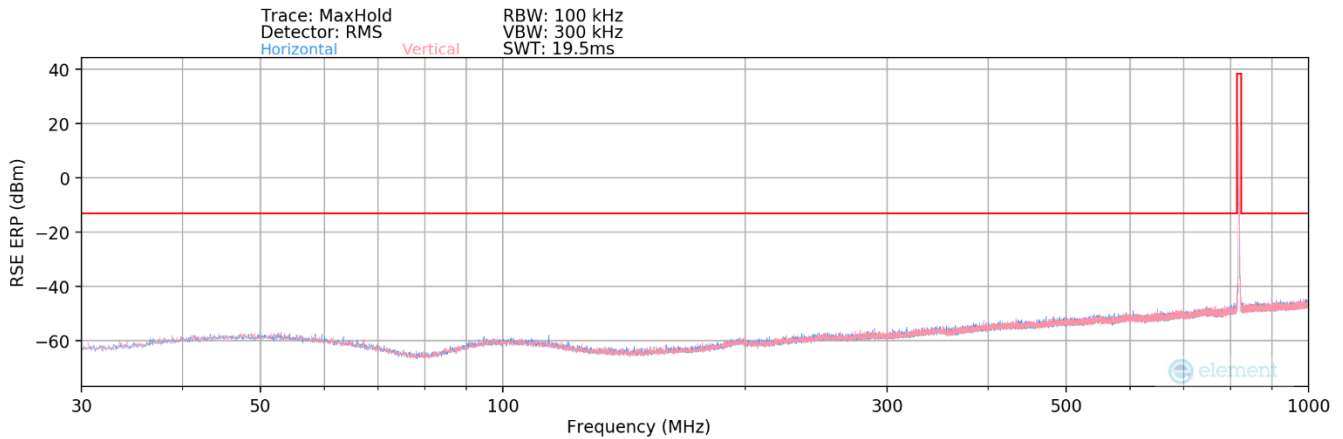
Bandwidth (MHz):	5
Frequency (MHz):	795.5
RB Config (Size / Offset):	1 / 12

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]
1591.00	H	181	137	-71.18	-9.22	26.60	-68.66	-40.00	-28.66
2386.50	H	167	127	-56.76	-5.78	44.46	-50.80	-13.00	-37.80
3182.00	H	-	-	-75.38	-3.64	27.98	-67.28	-13.00	-54.28
3977.50	H	-	-	-75.36	-1.05	30.59	-64.67	-13.00	-51.67
4773.00	H	-	-	-76.14	-0.74	30.12	-65.13	-13.00	-52.13
5568.50	H	-	-	-76.57	1.35	31.78	-63.47	-13.00	-50.47
6364.00	H	-	-	-77.14	3.26	33.12	-62.14	-13.00	-49.14

Table 7-12. Radiated Spurious Data Above 1GHz (LTE Band 14 – High Channel)

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LTE Band 26

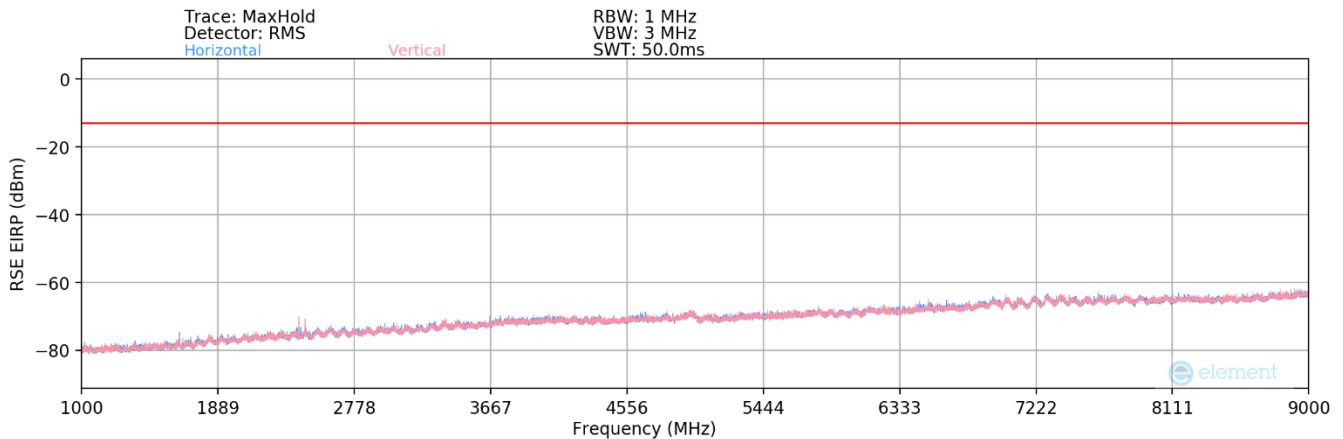


Plot 7-49. Radiated Spurious Plot Below 1GHz (LTE Band 26)

Bandwidth (MHz):	10
Frequency (MHz):	819
RB Config (Size / Offset):	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
814.61	H	-	-	-105.08	29.36	31.28	-63.98	-13.00	-50.98
884.82	H	-	-	-105.17	30.26	32.09	-63.17	-13.00	-50.17
991.16	H	-	-	-105.83	31.10	32.27	-62.98	-13.00	-49.98

Table 7-13. Radiated Spurious Data Below 1GHz (LTE Band 26)



Plot 7-50. Radiated Spurious Plot Above 1GHz (LTE Band 26)

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Bandwidth (MHz):	10
Frequency (MHz):	819
RB Config (Size / Offset):	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1638.00	H	143	358	-67.75	-9.24	30.01	-65.25	-13.00	-52.25
2457.00	H	141	364	-72.02	-5.74	29.24	-66.02	-13.00	-53.02
3276.00	H	-	-	-74.99	-3.05	28.96	-66.30	-13.00	-53.30
4095.00	H	-	-	-76.95	0.05	30.10	-65.16	-13.00	-52.16
4914.00	H	-	-	-76.65	0.37	30.72	-64.54	-13.00	-51.54
5733.00	H	-	-	-77.26	2.49	32.23	-63.03	-13.00	-50.03
6552.00	H	-	-	-77.76	4.02	33.26	-61.99	-13.00	-48.99

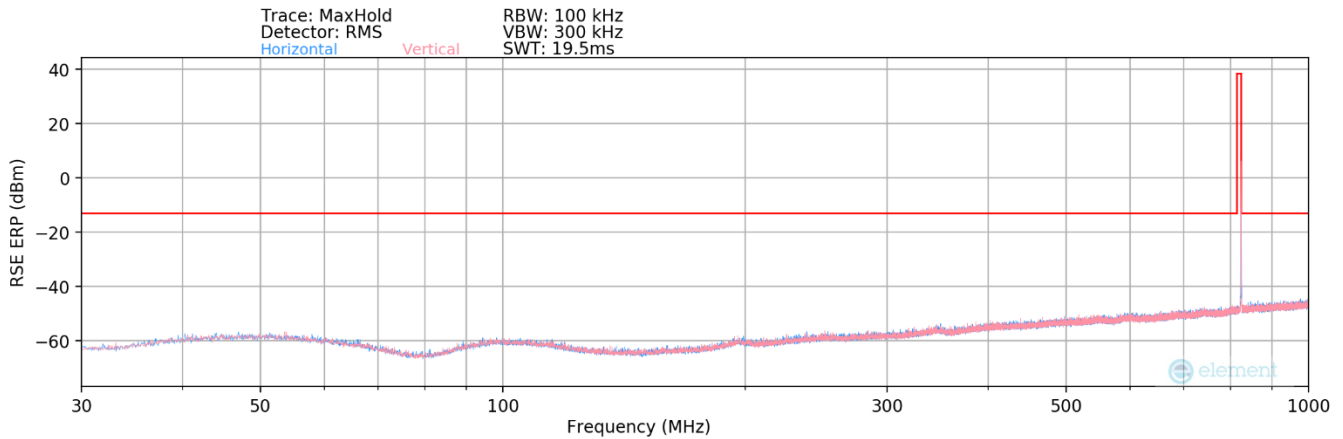
Table 7-14. Radiated Spurious Data Above 1GHz (LTE Band 26 – Mid Channel)

FCC ID: A3LSMS711U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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NR Band n26

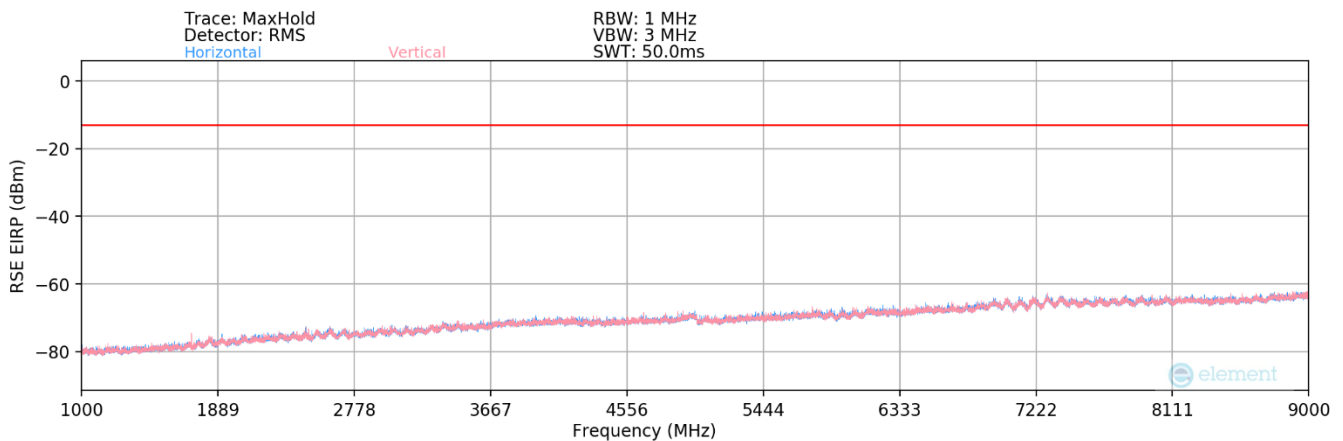


Plot 7-51. Radiated Spurious Plot Below 1GHz NR Band n26)

Bandwidth (MHz):	20
Frequency (MHz):	824
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]
550.13	H	-	-	-106.09	25.33	26.24	-71.16	-13.00	-58.16
870.30	H	-	-	-105.43	30.15	31.72	-65.69	-13.00	-52.69
955.00	H	-	-	-105.58	30.63	32.05	-65.36	-13.00	-52.36

Table 7-15. Radiated Spurious Data Below 1GHz (NR Band n26)



Plot 7-52. Radiated Spurious Plot Above 1GHz (NR Band n26)

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Bandwidth (MHz):	20
Frequency (MHz):	824
RB / Offset:	1 / 1

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]
1648.00	H	397	190	-69.28	-9.16	28.56	-66.70	-13.00	-53.70
2472.00	H	389	214	-73.85	-5.75	27.40	-67.86	-13.00	-54.86
3296.00	H	-	-	-75.62	-2.75	28.63	-66.62	-13.00	-53.62
4120.00	H	-	-	-75.99	-0.25	30.76	-64.49	-13.00	-51.49
4944.00	H	-	-	-76.63	0.59	30.96	-64.30	-13.00	-51.30
5768.00	H	-	-	-77.27	2.86	32.59	-62.67	-13.00	-49.67
6592.00	H	-	-	-77.41	4.22	33.81	-61.45	-13.00	-48.45

Table 7-16. Radiated Spurious Data Above 1GHz (NR Band n26 – Mid Channel)

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7.8 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.

The frequency stability of the transmitter shall be maintained within ±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

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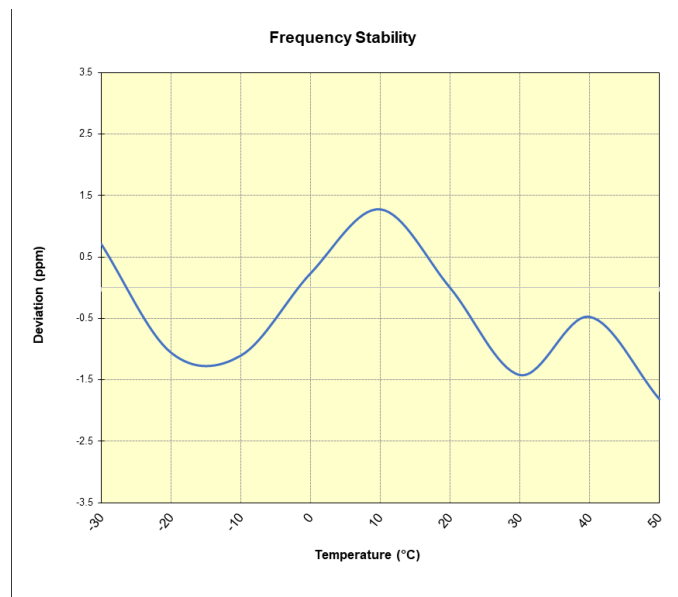
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LTE Band 14

LTE Band 14					
		Operating Frequency (Hz):		793,000,000	
		Ref. Voltage (VDC):		4.43	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.43	- 30	793,001,125	563	0.0000709
		- 20	792,999,725	-838	-0.0001056
		- 10	792,999,688	-875	-0.0001103
		0	793,000,750	188	0.0000236
		+ 10	793,001,575	1,013	0.0001277
		+ 20 (Ref)	793,000,563	0	0.0000000
		+ 30	792,999,438	-1,125	-0.0001419
		+ 40	793,000,188	-375	-0.0000473
Battery Endpoint	3.27	+ 20	793,000,626	63	0.0000079

Table 7-17. LTE Band 14 Frequency Stability Data



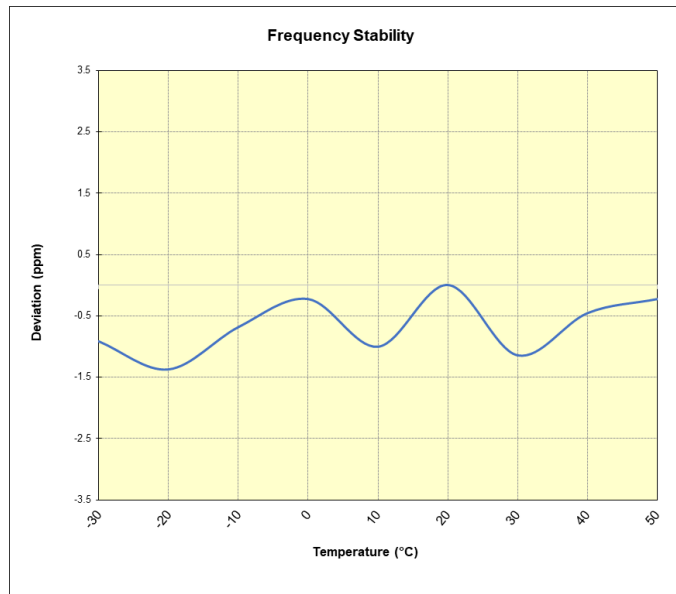
Plot 7-53. LTE Band 14 Frequency Stability Chart

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LTE Band 26

LTE Band 26					
Operating Frequency (Hz):		819,000,000			
Ref. Voltage (VDC):		4.43			
Deviation Limit:		± 0.00025% or 2.5 ppm			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.43	- 30	818,999,438	-750	-0.0000916
		- 20	818,999,063	-1,125	-0.0001374
		- 10	818,999,625	-563	-0.0000687
		0	819,000,000	-188	-0.0000229
		+ 10	818,999,365	-823	-0.0001004
		+ 20 (Ref)	819,000,188	0	0.0000000
		+ 30	818,999,250	-938	-0.0001145
		+ 40	818,999,813	-375	-0.0000458
Battery Endpoint	3.27	+ 20	818,999,388	-800	-0.0000976

Table 7-18. LTE Band 26 Frequency Stability Data



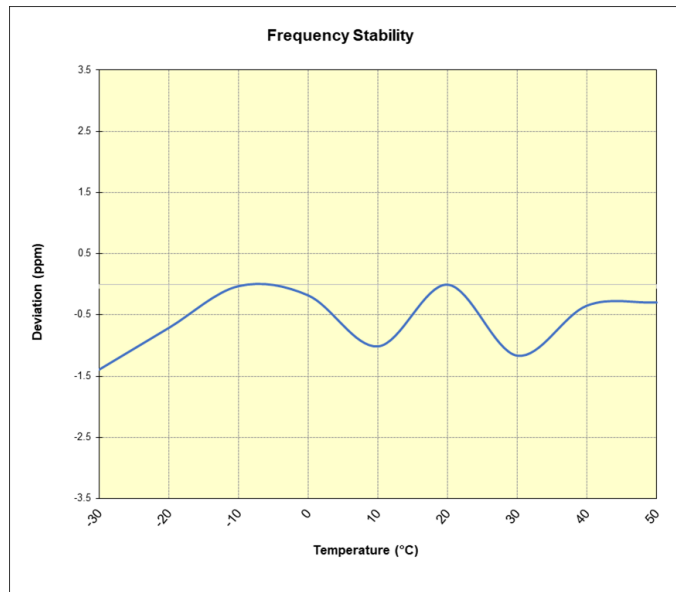
Plot 7-54. LTE Band 26 Frequency Stability Chart

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NR Band n26

NR Band n26					
		Operating Frequency (Hz):		819,000,000	
		Ref. Voltage (VDC):		4.433	
		Deviation Limit:		± 0.00025% or 2.5 ppm	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.43	- 30	818,999,063	-1,145	-0.0001398
		- 20	818,999,625	-583	-0.0000711
		- 10	819,000,188	-20	-0.0000024
		0	819,000,063	-145	-0.0000177
		+ 10	818,999,375	-833	-0.0001016
		+ 20 (Ref)	819,000,208	0	0.0000000
		+ 30	818,999,250	-958	-0.0001169
		+ 40	818,999,925	-283	-0.0000345
		+ 50	818,999,968	-240	-0.0000293
Battery Endpoint	3.27	+ 20	818,999,388	-820	-0.0001001

Table 7-19. NR Band n26 Frequency Stability Data



Plot 7-55. NR Band n26 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: A3LSMS711U** complies with all the requirements of Parts 22(H) and 90 of the FCC rules.

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