

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	H	249	273	1.15	1 / 25	21.18	20.18	0.104	34.77	-14.60	22.33	0.171	40.61	-18.28
	16-QAM	793.0	H	249	273	1.15	1 / 25	20.27	19.27	0.084	34.77	-15.51	21.42	0.139	40.61	-19.19
5 MHz	QPSK	790.5	H	249	273	1.15	1 / 0	21.15	20.15	0.104	34.77	-14.62	22.30	0.170	40.61	-18.30
	QPSK	793.0	H	249	273	1.15	1 / 12	21.09	20.08	0.102	34.77	-14.69	22.23	0.167	40.61	-18.37
	QPSK	795.5	H	249	273	1.14	1 / 12	21.08	20.08	0.102	34.77	-14.70	22.23	0.167	40.61	-18.38
10 MHz	16-QAM	795.5	H	249	273	1.14	1 / 12	20.33	19.32	0.086	34.77	-15.45	21.47	0.140	40.61	-19.14
	QPSK	795.5	V	141	221	1.15	1 / 25	21.03	20.03	0.101	34.77	-14.75	22.18	0.165	40.61	-18.43

Table 7-4. 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	159	253	1.24	1 / 37	21.90	20.99	0.126	38.45	-17.46	23.14	0.206	40.61	-17.47
15 MHz	16-QAM	821.5	V	159	253	1.24	1 / 37	21.10	20.19	0.104	38.45	-18.26	22.34	0.171	40.61	-18.27
	QPSK	816.5	H	389	273	1.24	1 / 37	18.79	17.88	0.061	38.45	-20.57	20.03	0.101	40.61	-20.58

Table 7-5. 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	$\pi/2$ BPSK	824.0	V	155	309	6.15	1 / 26	15.88	19.88	0.097	38.45	-18.57	22.03	0.160	40.61	-18.58
	QPSK	824.0	V	155	309	6.15	1 / 26	15.61	19.61	0.091	38.45	-18.84	21.76	0.150	40.61	-18.85
	16-QAM	824.0	V	155	309	6.15	1 / 26	14.80	18.80	0.076	38.45	-19.65	20.95	0.124	40.61	-19.66
15 MHz	$\pi/2$ BPSK	821.5	V	155	309	6.12	1 / 39	15.85	19.82	0.096	38.45	-18.63	21.97	0.157	40.61	-18.64
	QPSK	821.5	V	155	309	6.12	1 / 58	15.60	19.57	0.091	38.45	-18.88	21.72	0.149	40.61	-18.89
	16-QAM	821.5	V	155	309	6.12	1 / 58	14.96	18.93	0.078	38.45	-19.52	21.08	0.128	40.61	-19.53
20 MHz	QPSK (CP-OFDM)	824.0	V	155	309	6.15	1 / 26	13.93	17.93	0.062	38.45	-20.52	20.08	0.102	40.61	-20.53
	QPSK (Opposite Pol.)	824.0	H	105	292	6.65	1 / 79	14.24	18.74	0.075	38.45	-19.71	20.89	0.123	40.61	-19.72
	QPSK (WCP)	824.0	V	155	309	6.15	1 / 26	9.01	13.01	0.020	38.45	-25.44	15.16	0.033	40.61	-25.45

Table 7-6. 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

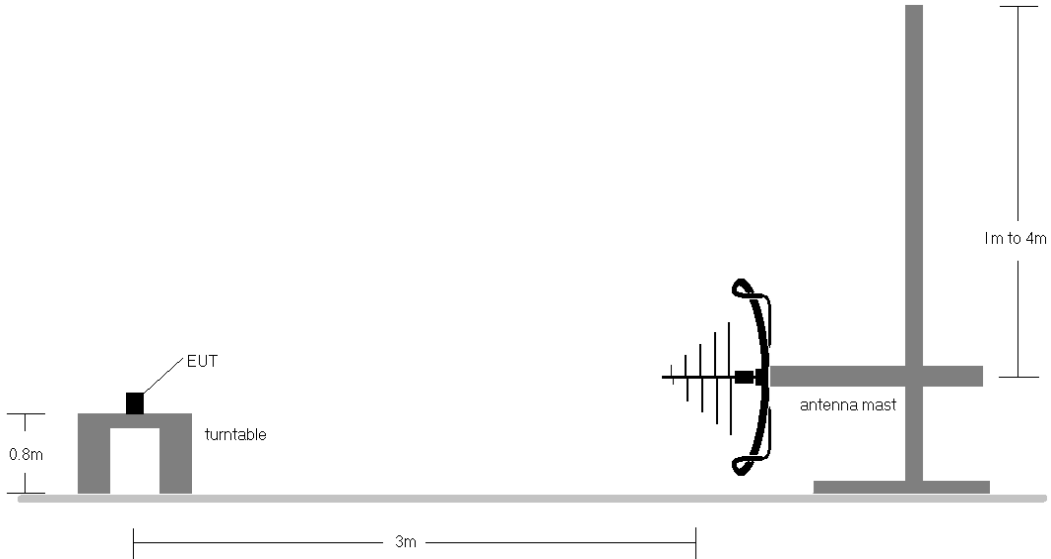
### Test Settings

1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
2. VBW  $\geq 3 \times$  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

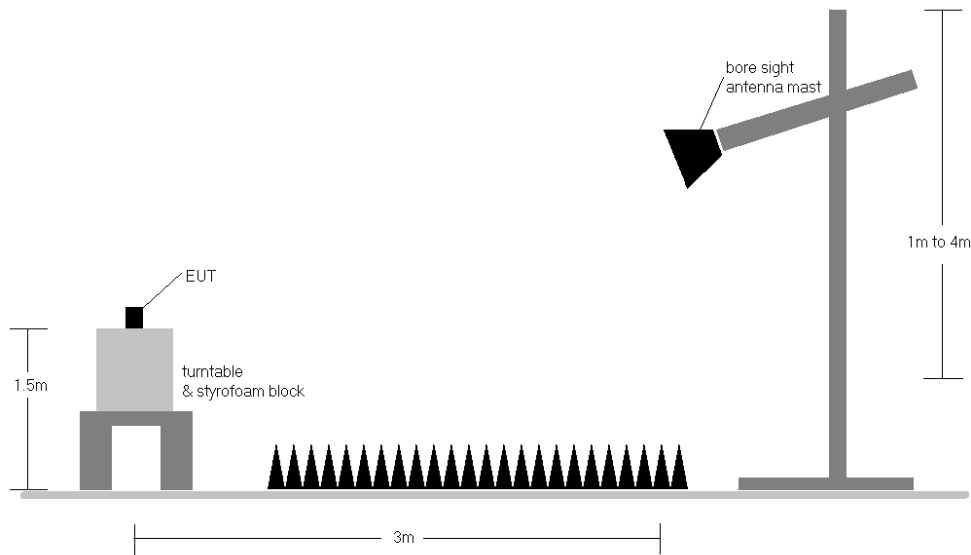
FCC ID: A3LSMS911U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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**Test Setup**

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**

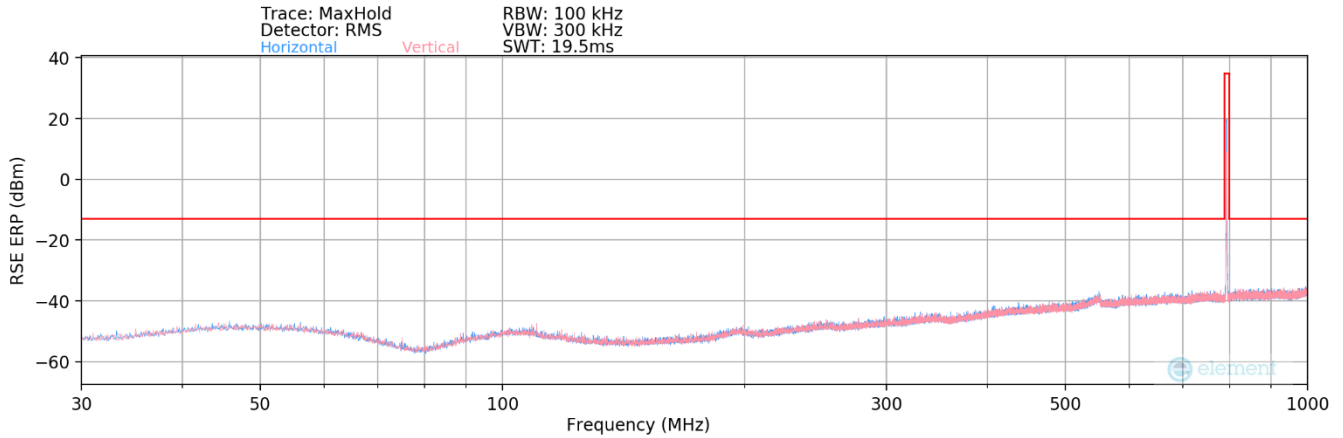
<b>FCC ID:</b> A3LSMS911U	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2209010096-06.A3L	<b>Test Dates:</b> 9/5/2022 – 11/6/2022	<b>EUT Type:</b> Portable Handset	Page 52 of 64

**Test Notes**

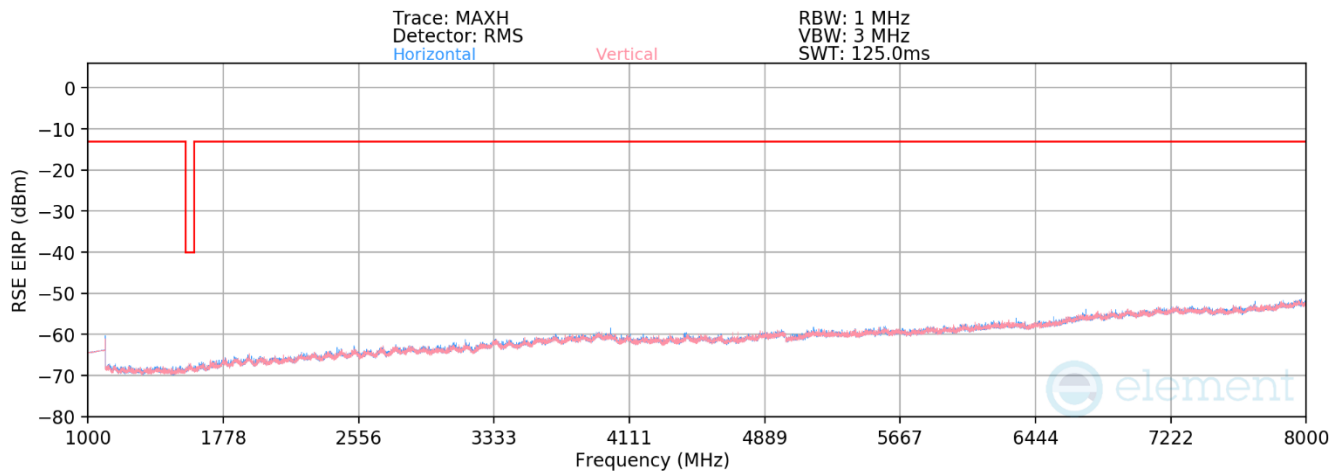
- 1) Field strengths are calculated using the Measurement quantity conversions in ANSI C63.26-2015 Section 5.2.7:
  - a)  $E(\text{dB}\mu\text{V}/\text{m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
  - b)  $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V}/\text{m})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

FCC ID: A3LSMS911U	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		<b>Approved by:</b> Technical Manager
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# LTE Band 14



**Plot 7-57. Radiated Spurious Plot (LTE Band 14 – Below 1GHz)**



**Plot 7-58. Radiated Spurious Plot (LTE Band 14 – Above 1GHz)**

Bandwidth (MHz):	793
Frequency (MHz):	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]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
468.31	H	-	-	-79.11	18.25	46.14	-49.12	-13.00	-36.12
555.84	H	-	-	-78.91	19.90	47.99	-47.27	-13.00	-34.27
823.68	H	-	-	-79.66	24.12	51.46	-43.79	-13.00	-30.79

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

FCC ID: A3LSMS911U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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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	-	-	-75.37	-8.22	23.41	-71.85	-40.00	-31.85
2371.50	H	103	316	-73.48	-4.83	28.69	-66.57	-13.00	-53.57
3162.00	H	-	-	-76.96	-1.88	28.16	-67.10	-13.00	-54.10
3952.50	H	-	-	-77.88	1.19	30.31	-64.95	-13.00	-51.95
4743.00	H	-	-	-78.75	1.18	29.43	-65.82	-13.00	-52.82
5533.50	H	-	-	-79.09	3.62	31.53	-63.73	-13.00	-50.73

Table 7-8. Radiated Spurious Data (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	-	-	-75.33	-8.20	23.47	-71.79	-40.00	-31.79
2379.00	H	113	315	-72.84	-4.79	29.37	-65.89	-13.00	-52.89
3172.00	H	-	-	-76.79	-2.01	28.20	-67.06	-13.00	-54.06
3965.00	H	-	-	-78.21	1.36	30.15	-65.11	-13.00	-52.11
4758.00	H	-	-	-78.75	1.42	29.67	-65.59	-13.00	-52.59
5551.00	H	-	-	-79.23	3.73	31.50	-63.76	-13.00	-50.76

Table 7-9. Radiated Spurious Data (LTE Band 14 – Mid Channel)

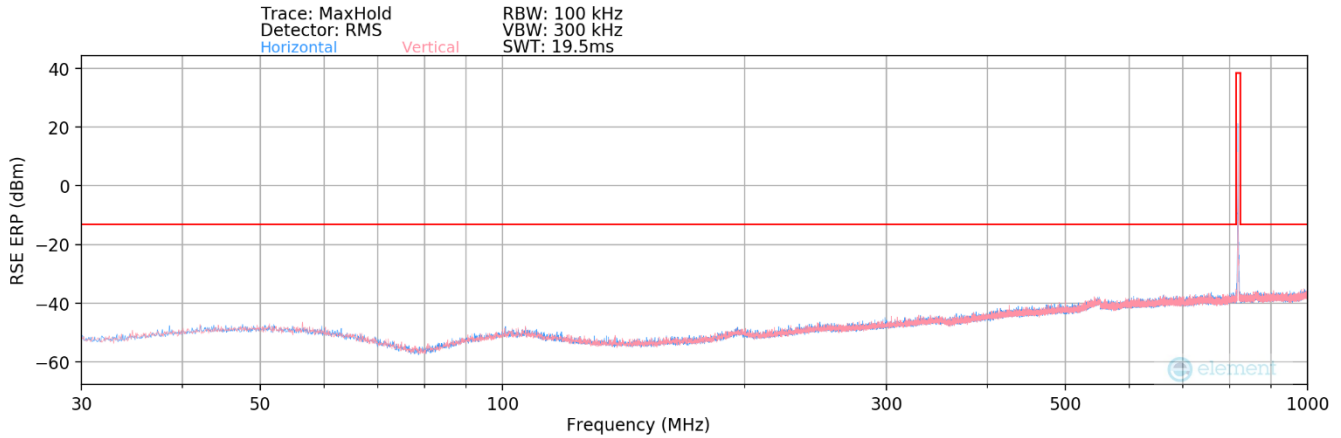
Bandwidth (MHz):	5
Frequency (MHz):	795.5
RB Config (Size / Offset):	1 / 12

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	-	-	-75.31	-8.18	23.51	-71.74	-40.00	-31.74
2386.50	H	117	305	-72.97	-4.64	29.39	-65.87	-13.00	-52.87
3182.00	H	-	-	-76.47	-2.02	28.51	-66.75	-13.00	-53.75
3977.50	H	-	-	-78.43	1.69	30.26	-65.00	-13.00	-52.00
4773.00	H	-	-	-78.43	1.17	29.74	-65.52	-13.00	-52.52
5568.50	H	-	-	-78.90	3.90	32.00	-63.26	-13.00	-50.26

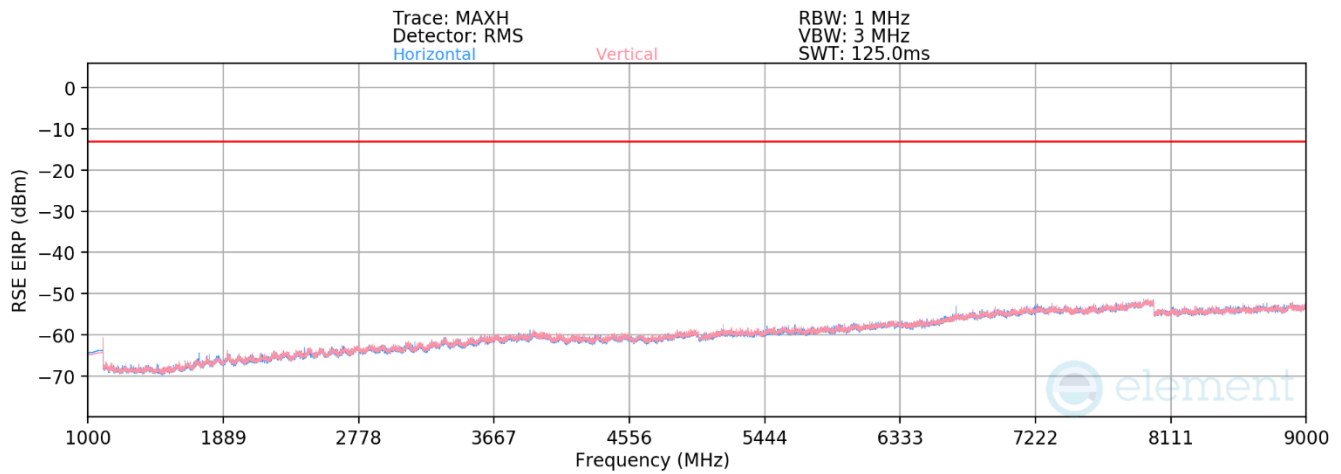
Table 7-10. Radiated Spurious Data (LTE Band 14 – High Channel)

FCC ID: A3LSMS911U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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# LTE Band 26



**Plot 7-59. Radiated Spurious Plot (LTE Band 26 – Below 1GHz)**



**Plot 7-60. Radiated Spurious Plot (LTE Band 26 – Above 1GHz)**

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]
456.57	H	-	-	-79.16	17.92	45.76	-49.49	-13.00	-36.49
551.40	H	-	-	-78.60	19.75	48.15	-47.11	-13.00	-34.11
864.76	H	-	-	-79.91	24.76	51.85	-43.41	-13.00	-30.41

**Table 7-11. Radiated Spurious Data (LTE Band 26 – Mid Channel – Below 1GHz)**

FCC ID: A3LSMS911U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Bandwidth (MHz):	10
Frequency (MHz):	819
RB Config (Size / Offset):	1 / 25

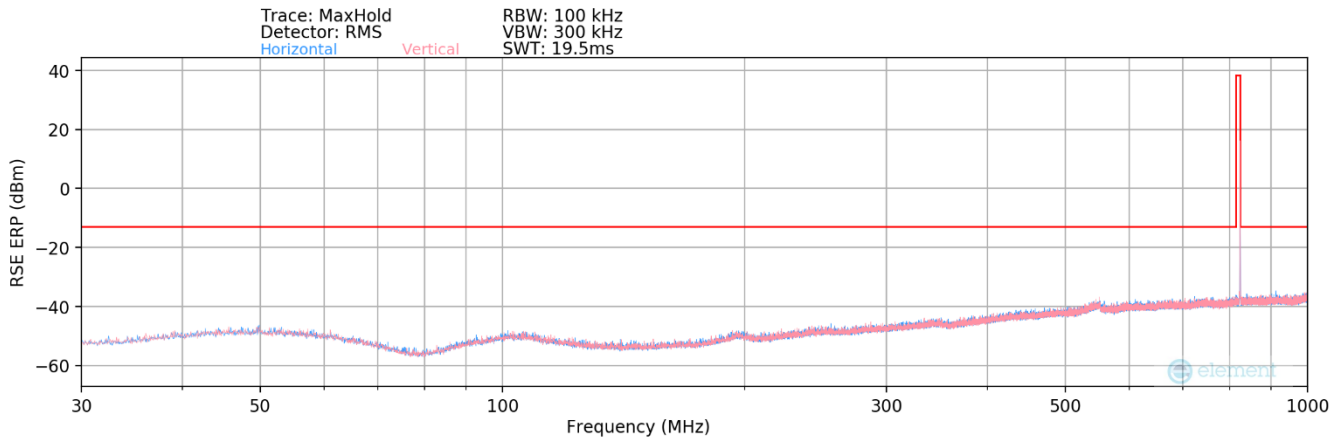
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1638.00	H	200	223	-72.10	-7.81	27.09	-68.17	-13.00	-55.17
2457.00	H	-	-	-75.60	-4.21	27.19	-68.06	-13.00	-55.06
3276.00	H	-	-	-76.81	-1.18	29.01	-66.25	-13.00	-53.25
4095.00	H	-	-	-77.27	1.13	30.86	-64.39	-13.00	-51.39
4914.00	H	-	-	-78.46	1.68	30.22	-65.04	-13.00	-52.04
5733.00	H	-	-	-78.49	3.20	31.71	-63.54	-13.00	-50.54

Table 7-12. Radiated Spurious Data (LTE Band 26 – Mid Channel)

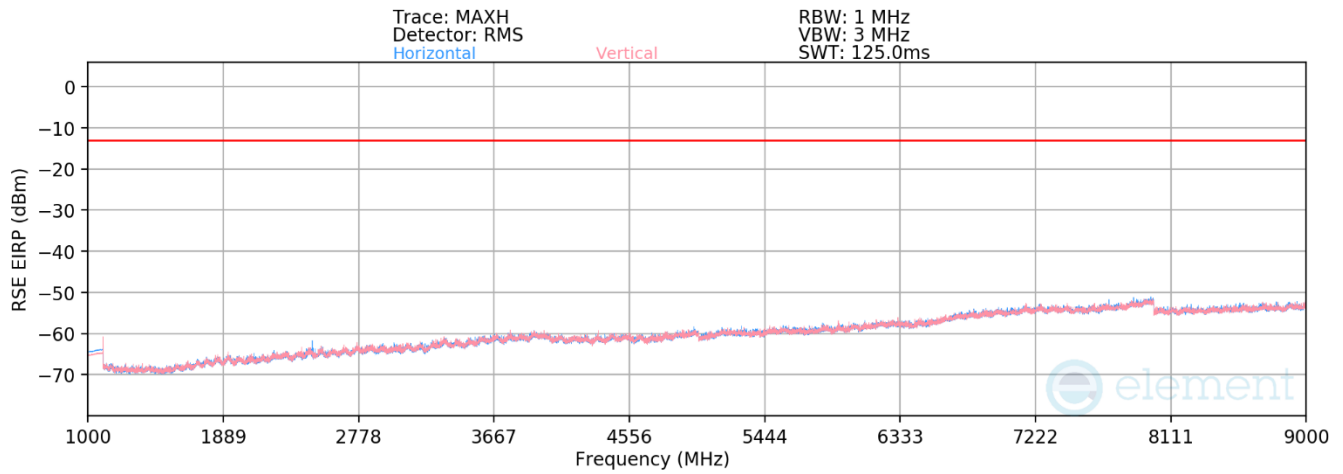
FCC ID: A3LSMS911U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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# NR Band n26



Plot 7-61. Radiated Spurious Plot (NR Band n26 – Below 1GHz)



Plot 7-62. Radiated Spurious Plot (NR Band n26 – Above 1GHz)

Bandwidth (MHz):	20
Frequency (MHz):	824
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]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
298.52	V	-	-	-80.56	14.69	41.13	-54.13	-13.00	-41.13
550.50	V	-	-	-79.30	19.71	47.41	-47.85	-13.00	-34.85
908.54	V	-	-	-81.36	25.13	50.77	-44.49	-13.00	-31.49

Table 7-13. Radiated Spurious Data (NR Band n26 – Mid Channel – Below 1GHz)

FCC ID: A3LSMS911U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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<b>Bandwidth (MHz):</b>	20
<b>Frequency (MHz):</b>	824
<b>RB / Offset:</b>	1 / 53
<b>Mode:</b>	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]
1648.00	V	-	-	-74.82	-7.78	24.40	-70.86	-13.00	-57.86
2472.00	V	-	-	-75.60	-4.26	27.14	-68.12	-13.00	-55.12
3296.00	V	-	-	-77.23	-0.95	28.82	-66.43	-13.00	-53.43
4120.00	V	-	-	-76.97	0.81	30.84	-64.42	-13.00	-51.42
4944.00	V	-	-	-77.62	1.45	30.83	-64.43	-13.00	-51.43
5768.00	V	-	-	-78.22	3.58	32.36	-62.89	-13.00	-49.89

**Table 7-14. Radiated Spurious Data (NR Band n26 – Mid Channel)**

<b>FCC ID:</b> A3LSMS911U	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		<b>Approved by:</b> Technical Manager
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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

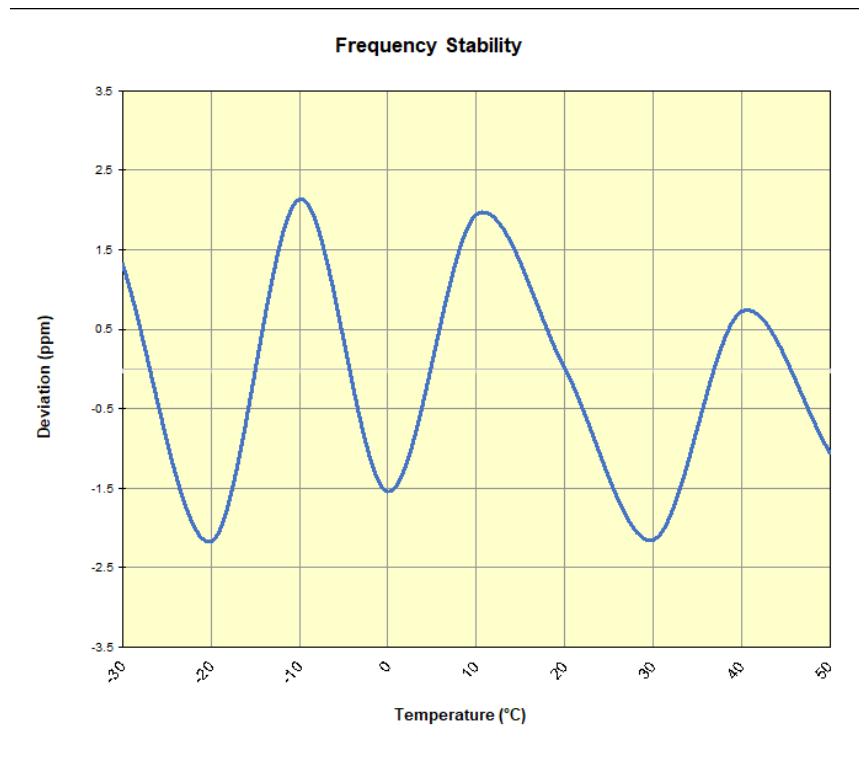
None

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## Frequency Stability / Temperature Variation

LTE Band 14					
		Operating Frequency (Hz):		793,000,000	
		Ref. Voltage (VDC):		4.34	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.34	- 30	793,004,247	1,045	0.0001318
		- 20	793,001,480	-1,722	-0.0002171
		- 10	793,004,899	1,697	0.0002140
		0	793,001,978	-1,224	-0.0001543
		+ 10	793,004,746	1,544	0.0001947
		+ 20 (Ref)	793,003,202	0	0.0000000
		+ 30	793,001,495	-1,707	-0.0002153
		+ 40	793,003,780	578	0.0000729
Battery Endpoint	3.71	+ 20	793,003,117	-85	-0.0000107

Table 7-15. LTE Band 14 Frequency Stability Data



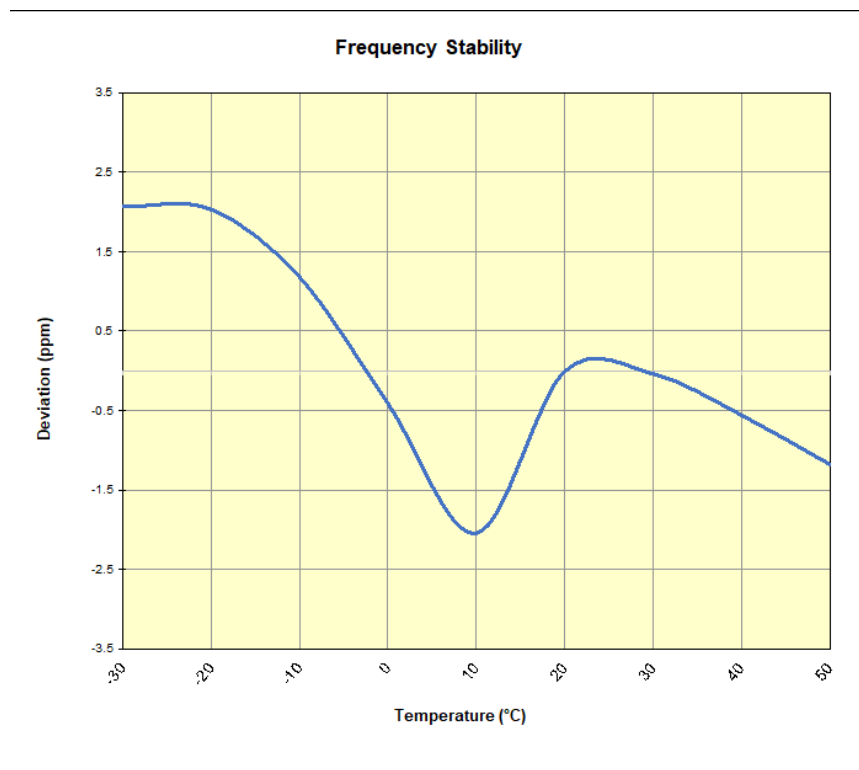
Plot 7-63. LTE Band 14 Frequency Stability Chart

FCC ID: A3LSMS911U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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## Frequency Stability / Temperature Variation

LTE Band 26					
Operating Frequency (Hz):		819,000,000			
Ref. Voltage (VDC):		4.34			
Deviation Limit:		± 0.00025% or 2.5 ppm			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.34	- 30	818,995,877	1,696	0.0002071
		- 20	818,995,848	1,667	0.0002035
		- 10	818,995,148	967	0.0001181
		0	818,993,844	-337	-0.0000411
		+ 10	818,992,511	-1,670	-0.0002039
		+ 20 (Ref)	818,994,181	0	0.0000000
		+ 30	818,994,151	-30	-0.0000037
		+ 40	818,993,725	-456	-0.0000557
Battery Endpoint	3.71	+ 20	818,994,879	698	0.0000852

Table 7-16. LTE Band 26 Frequency Stability Data



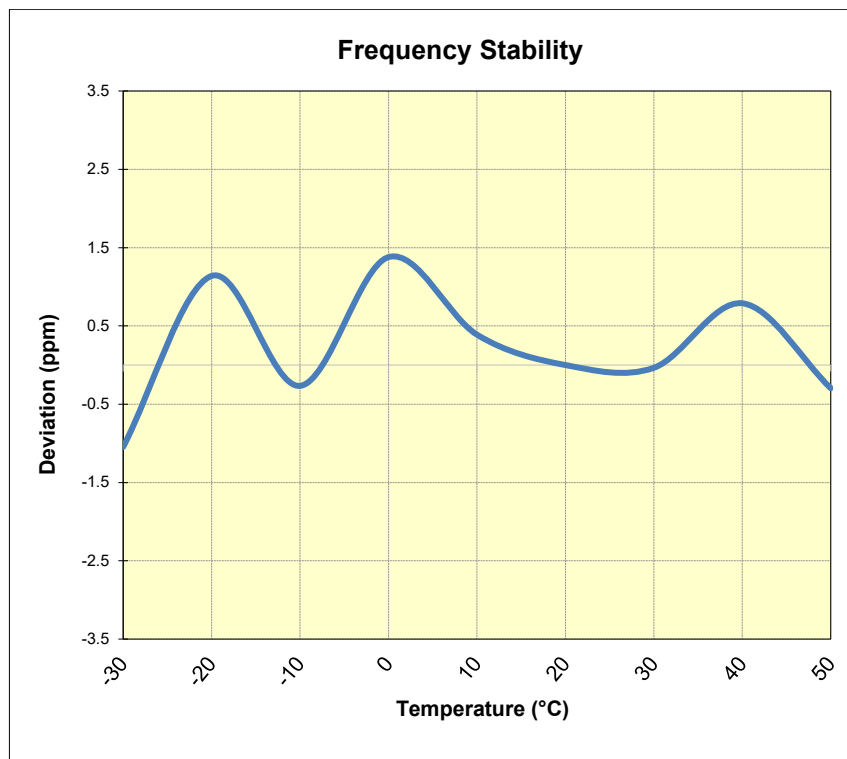
Plot 7-64. LTE Band 26 Frequency Stability Chart

FCC ID: A3LSMS911U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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## Frequency Stability / Temperature Variation

NR Band n26					
		Operating Frequency (Hz):		824,000,000	
		Ref. Voltage (VDC):		4.34	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.34	- 30	824,083,284	-862	-0.0001046
		- 20	824,085,084	938	0.0001138
		- 10	824,083,927	-219	-0.0000266
		0	824,085,282	1,136	0.0001379
		+ 10	824,084,466	320	0.0000388
		+ 20 (Ref)	824,084,146	0	0.0000000
		+ 30	824,084,117	-29	-0.0000035
		+ 40	824,084,796	650	0.0000789
Battery Endpoint	3.71	+ 20	824,085,253	1,107	0.0001343

Table 7-17. NR Band n26 Frequency Stability Data



Plot 7-65. NR Band n26 Frequency Stability Chart

FCC ID: A3LSMS911U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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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: A3LSMS911U** complies with all the requirements of Parts 22(H) and 90 of the FCC rules.

FCC ID: A3LSMS911U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2209010096-06.A3L	Test Dates: 9/5/2022 – 11/6/2022	EUT Type: Portable Handset	Page 64 of 64