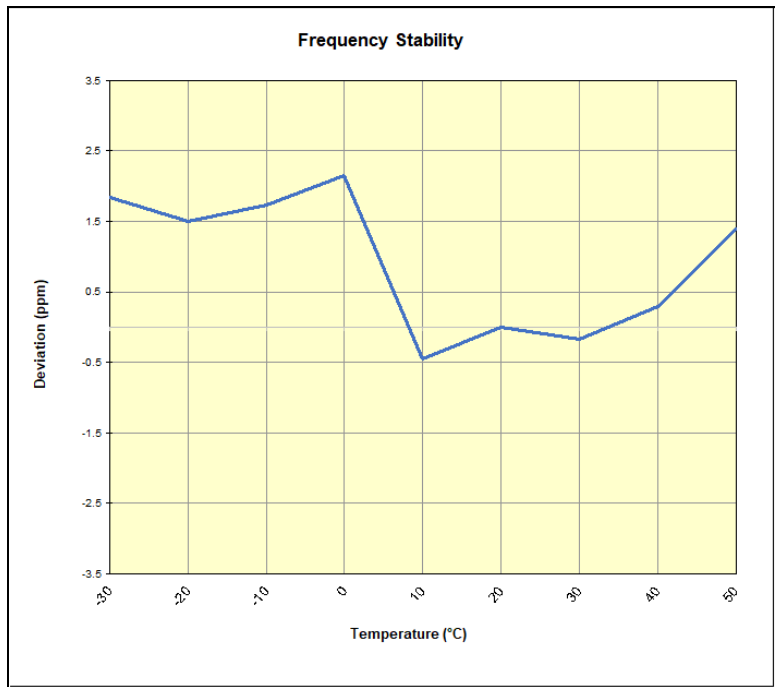


Frequency Stability / Temperature Variation

		Operating Frequency (Hz):	680,500,000		
		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	681,031,687	1,256	0.0001845
		- 20	681,031,452	1,022	0.0001500
		- 10	681,031,608	1,178	0.0001730
		0	681,031,894	1,464	0.0002150
		+ 10	681,030,123	-307	-0.0000451
		+ 20 (Ref)	681,030,430	0	0.0000000
		+ 30	681,030,317	-113	-0.0000166
		+ 40	681,030,628	198	0.0000290
Battery Endpoint	3.27	+ 20	681,030,400	-30	-0.0000044

Table 7-82. LTE Band 71 Frequency Stability Data



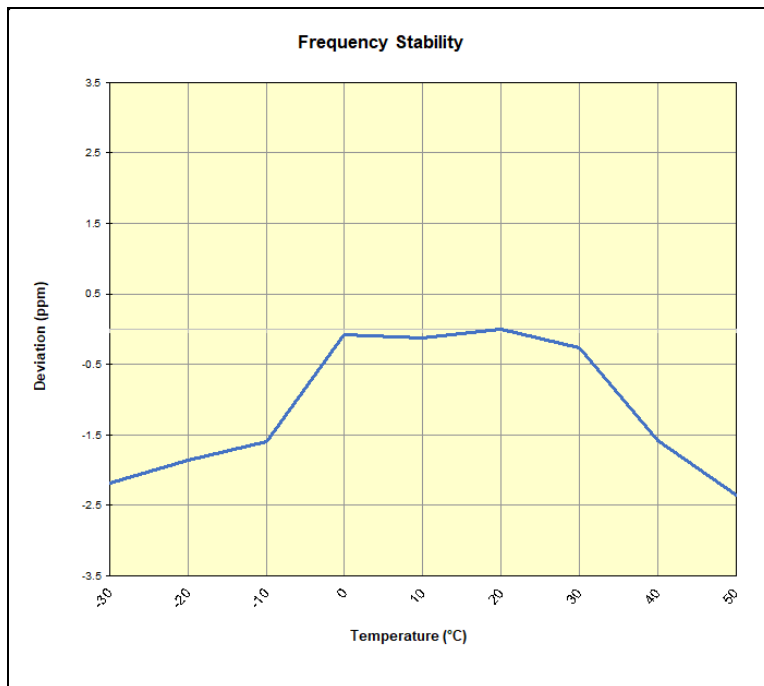
Plot 7-234. LTE Band 71 Frequency Stability Chart

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Frequency Stability / Temperature Variation

LTE Band 12					
Operating Frequency (Hz):		707,500,000			
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	707,970,514	-1,550	-0.0002189
		- 20	707,970,747	-1,316	-0.0001859
		- 10	707,970,939	-1,125	-0.0001588
		0	707,972,004	-59	-0.0000083
		+ 10	707,971,971	-92	-0.0000131
		+ 20 (Ref)	707,972,063	0	0.0000000
		+ 30	707,971,881	-182	-0.0000257
		+ 40	707,970,949	-1,114	-0.0001574
Battery Endpoint	3.27	+ 20	707,972,006	-57	-0.0000081

Table 7-83. LTE Band 12 Frequency Stability Data



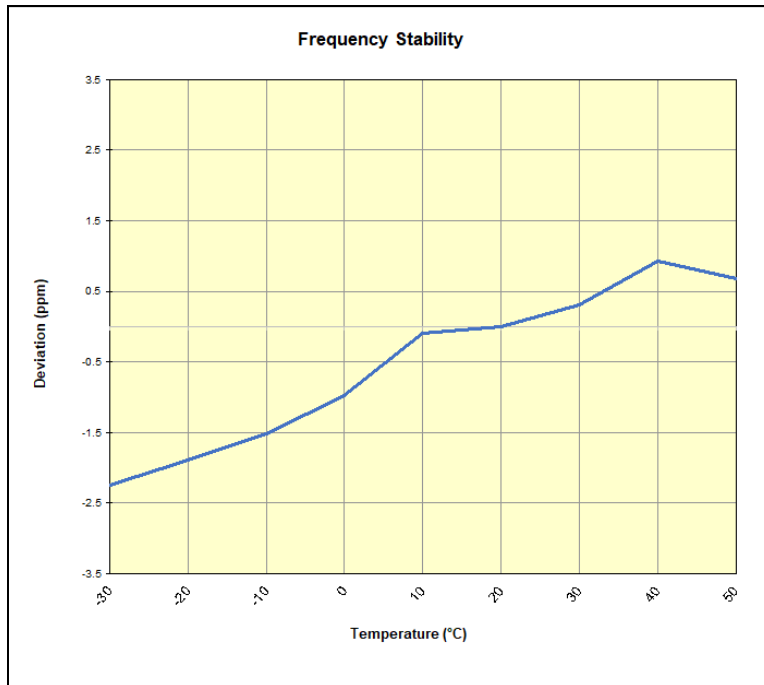
Plot 7-235. LTE Band 12 Frequency Stability Chart

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Frequency Stability / Temperature Variation

LTE Band 13					
		Operating Frequency (Hz):		782,000,000	
		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	782,531,378	-1,759	-0.0002248
		- 20	782,531,657	-1,481	-0.0001892
		- 10	782,531,955	-1,183	-0.0001511
		0	782,532,370	-767	-0.0000980
		+ 10	782,533,061	-77	-0.0000098
		+ 20 (Ref)	782,533,137	0	0.0000000
		+ 30	782,533,381	244	0.0000312
		+ 40	782,533,864	727	0.0000929
Battery Endpoint	3.27	+ 20	782,533,120	-17	-0.0000022

Table 7-84. LTE Band 13 Frequency Stability Data



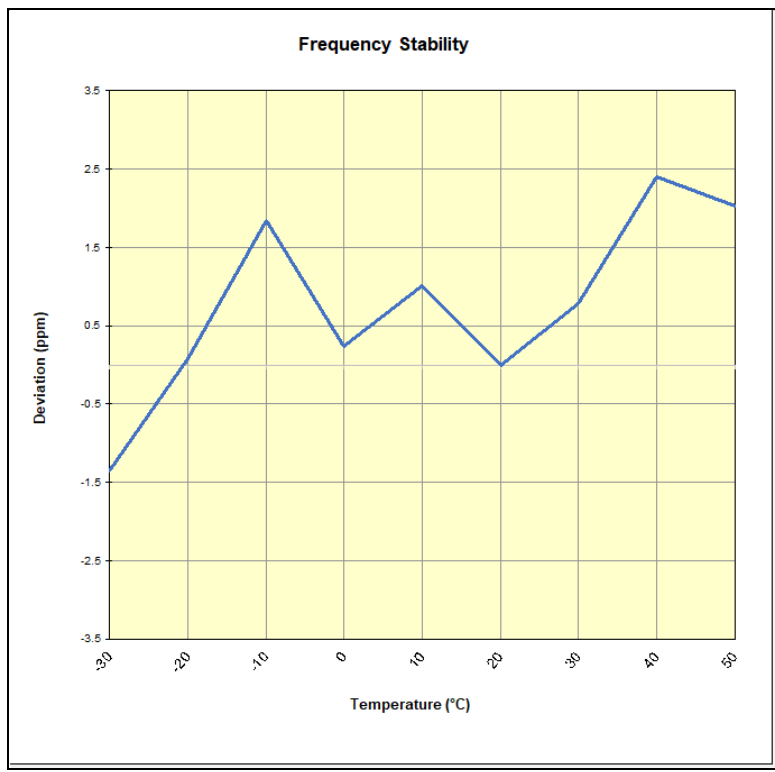
Plot 7-236. LTE Band 13 Frequency Stability Chart

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Frequency Stability / Temperature Variation

NR Band n71					
Operating Frequency (Hz):		680,500,000			
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	680,620,381	-918	-0.0001349
		- 20	680,621,358	58	0.0000086
		- 10	680,622,556	1,256	0.0001846
		0	680,621,466	166	0.0000244
		+ 10	680,621,990	691	0.0001015
		+ 20 (Ref)	680,621,300	0	0.0000000
		+ 30	680,621,830	530	0.0000779
		+ 40	680,622,933	1,633	0.0002400
Battery Endpoint	3.27	+ 20	680,621,350	50	0.0000074

Table 7-85. NR Band n71 Frequency Stability Data



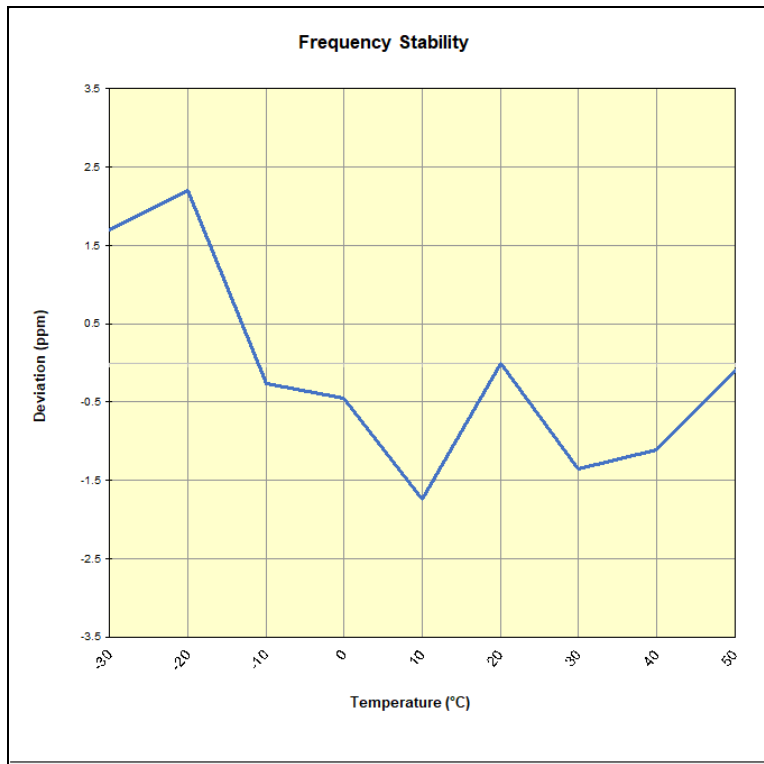
Plot 7-237. NR Band n71 Frequency Stability Chart

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Frequency Stability / Temperature Variation

NR Band n12					
		Operating Frequency (Hz):		707,500,000	
		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	707,623,525	1,199	0.0001694
		- 20	707,623,881	1,554	0.0002197
		- 10	707,622,139	-188	-0.0000265
		0	707,622,006	-320	-0.0000452
		+ 10	707,621,094	-1,233	-0.0001742
		+ 20 (Ref)	707,622,326	0	0.0000000
		+ 30	707,621,366	-960	-0.0001357
		+ 40	707,621,542	-785	-0.0001109
		+ 50	707,622,259	-68	-0.0000095
Battery Endpoint	3.27	+ 20	707,622,300	-26	-0.0000037

Table 7-86. NR Band n12 Frequency Stability Data



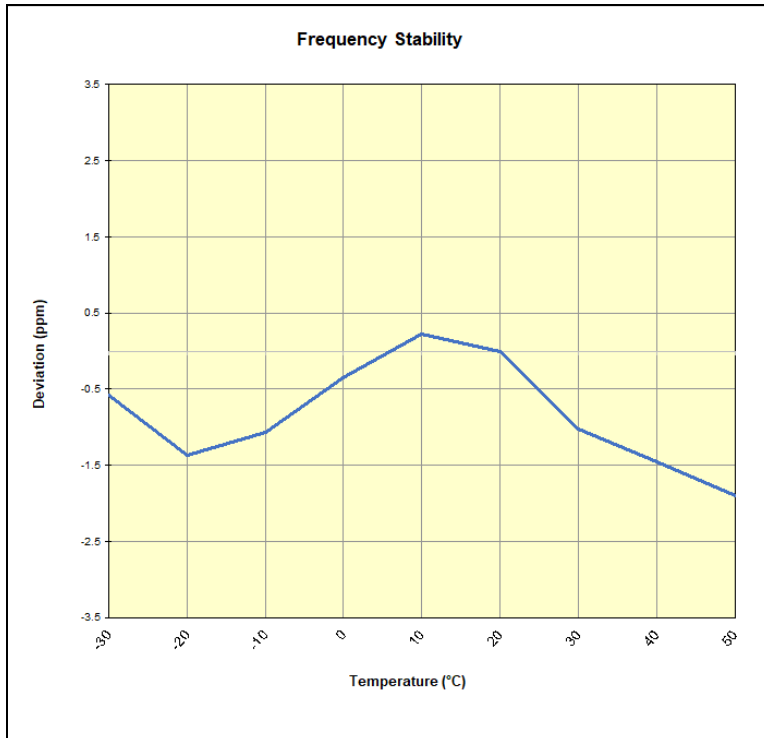
Plot 7-238. NR Band n12 Frequency Stability Chart

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Frequency Stability / Temperature Variation

WCDMA AWS					
Operating Frequency (Hz):		1,732,600,000			
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	1,732,723,484	-1,016	-0.0000586
		- 20	1,732,722,123	-2,378	-0.0001372
		- 10	1,732,722,640	-1,861	-0.0001074
		0	1,732,723,893	-607	-0.0000350
		+ 10	1,732,724,878	377	0.0000218
		+ 20 (Ref)	1,732,724,500	0	0.0000000
		+ 30	1,732,722,714	-1,786	-0.0001031
		+ 40	1,732,721,970	-2,531	-0.0001460
		+ 50	1,732,721,204	-3,296	-0.0001902
Battery Endpoint	3.27	+ 20	1,732,724,550	50	0.0000029

Table 7-87. WCDMA AWS Frequency Stability Data



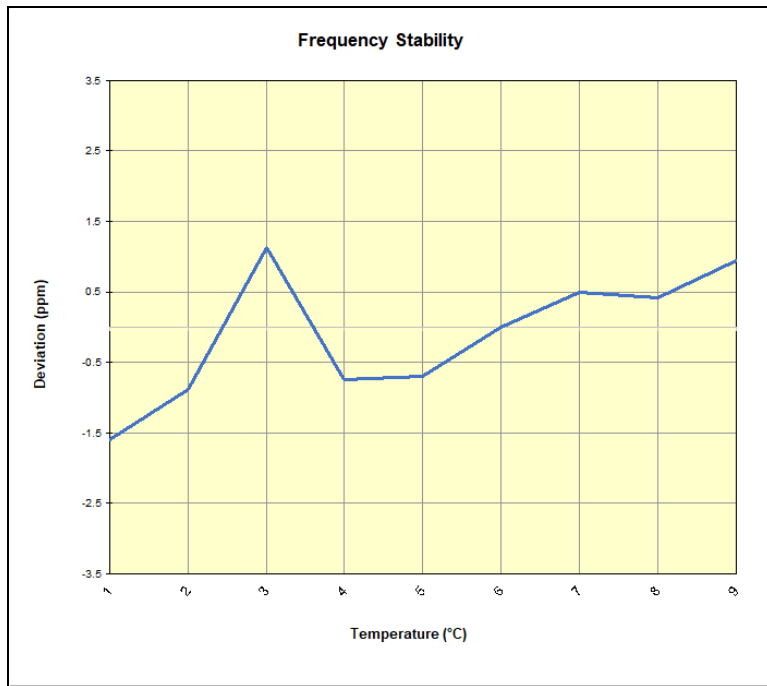
Plot 7-239. WCDMA AWS Frequency Stability Chart

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Frequency Stability / Temperature Variation

LTE Band 66/4					
Operating Frequency (Hz):		1,745,000,000			
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	1,745,728,157	-2,775	-0.0001590
		- 20	1,745,729,385	-1,547	-0.0000886
		- 10	1,745,732,901	1,969	0.0001128
		0	1,745,729,642	-1,289	-0.0000739
		+ 10	1,745,729,707	-1,224	-0.0000701
		+ 20 (Ref)	1,745,730,932	0	0.0000000
		+ 30	1,745,731,786	854	0.0000489
		+ 40	1,745,731,655	723	0.0000414
		+ 50	1,745,732,587	1,655	0.0000948
Battery Endpoint	3.27	+ 20	1,745,730,900	-32	-0.0000018

Table 7-88. LTE Band 66/4 Frequency Stability Data



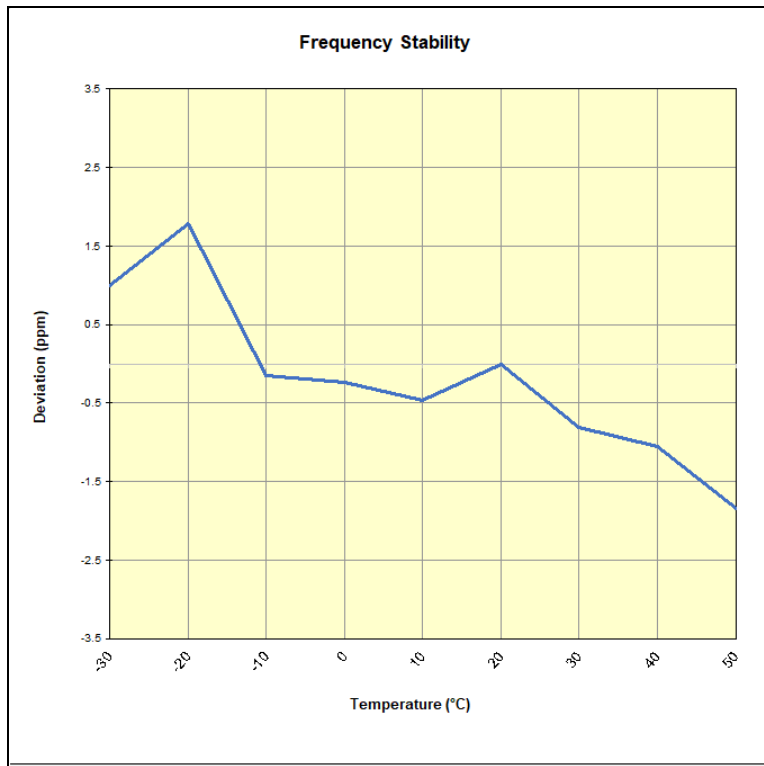
Plot 7-240. LTE Band 66/4 Frequency Stability Chart

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Frequency Stability / Temperature Variation

NR Band n66					
		Operating Frequency (Hz):		1,745,000,000	
		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	1,745,113,164	1,733	0.0000993
		- 20	1,745,114,552	3,121	0.0001789
		- 10	1,745,111,176	-255	-0.0000146
		0	1,745,111,019	-412	-0.0000236
		+ 10	1,745,110,608	-823	-0.0000471
		+ 20 (Ref)	1,745,111,431	0	0.0000000
		+ 30	1,745,110,025	-1,406	-0.0000806
		+ 40	1,745,109,593	-1,838	-0.0001053
		+ 50	1,745,108,212	-3,219	-0.0001844
Battery Endpoint	3.27	+ 20	1,745,111,400	-31	-0.0000018

Table 7-89. NR Band n66 Frequency Stability Data



Plot 7-241. NR Band n66 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 Part 27 of the FCC rules.

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