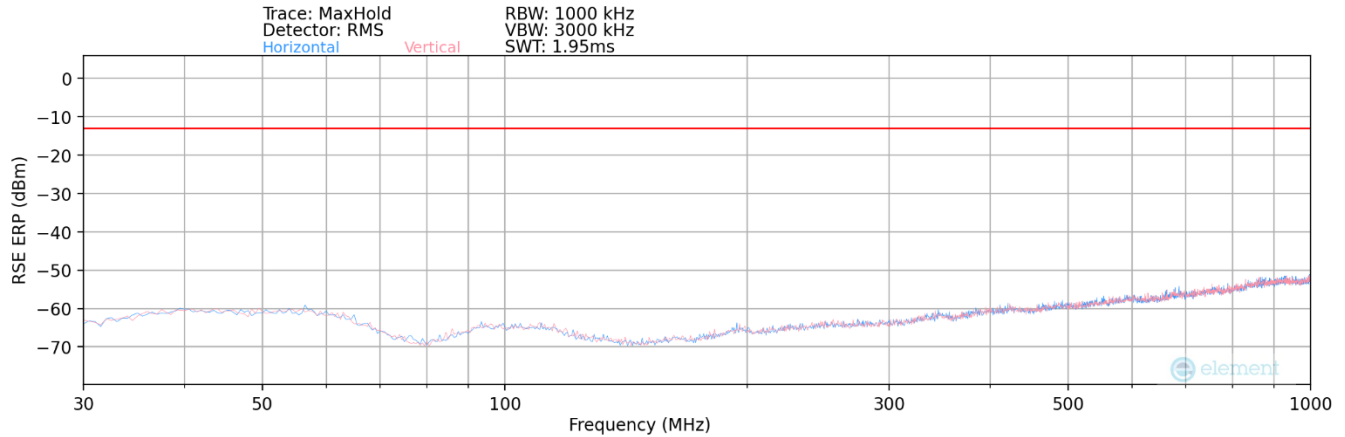


LTE Band 25/2 – Ant2

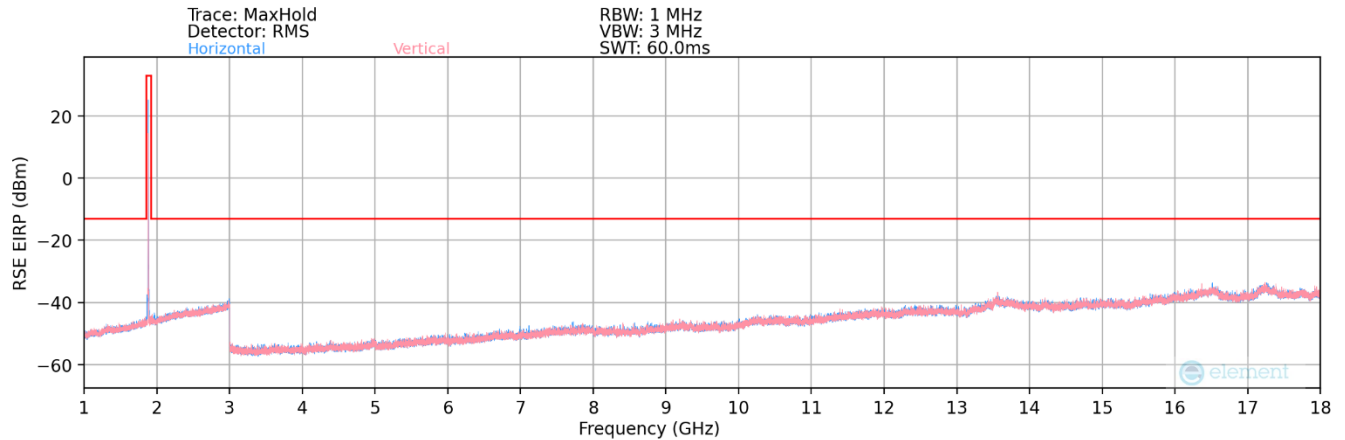


Plot 7-207. Radiated Spurious Plot (LTE Band 25/2 - Ant2)

Bandwidth (MHz):	20
Frequency (MHz):	1882.5
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]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
686.50	V	-	-	-76.53	-3.18	27.29	-70.12	-13.00	-57.12

Table 7-38. Radiated Spurious Data (LTE Band 25/2 – Mid Channel - Ant2)



Plot 7-208. Radiated Spurious Plot (LTE Band 25/2 - Ant2)

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Bandwidth (MHz):	20
Frequency (MHz):	1860
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]
3720.00	V	-	-	-79.35	7.60	35.25	-60.01	-13.00	-47.01
5580.00	V	-	-	-81.01	11.46	37.45	-57.81	-13.00	-44.81
7440.00	V	-	-	-81.82	15.34	40.52	-54.74	-13.00	-41.74

Table 7-39. Radiated Spurious Data (LTE Band 25/2 – Low Channel - Ant2)

Bandwidth (MHz):	20
Frequency (MHz):	1882.5
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]
3765.00	V	-	-	-79.52	7.94	35.42	-59.84	-13.00	-46.84
5647.50	V	-	-	-80.89	11.39	37.50	-57.76	-13.00	-44.76
7530.00	V	-	-	-81.85	15.50	40.65	-54.61	-13.00	-41.61

Table 7-40. Radiated Spurious Data (LTE Band 25/2 – Mid Channel - Ant2)

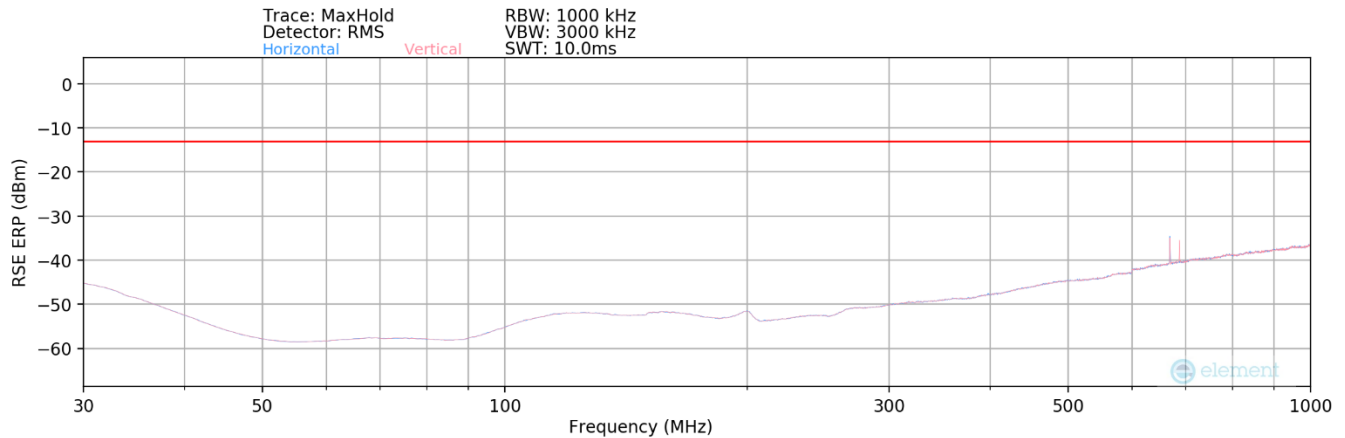
Bandwidth (MHz):	20
Frequency (MHz):	1905
RB / Offset:	1 / 50

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]
3810.00	V	-	-	-79.77	8.10	35.33	-59.93	-13.00	-46.93
5715.00	V	-	-	-81.13	11.31	37.18	-58.07	-13.00	-45.07
7620.00	V	-	-	-81.83	15.70	40.87	-54.39	-13.00	-41.39

Table 7-41. Radiated Spurious Data (LTE Band 25/2 – High Channel - Ant2)

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NR Band n25/2 – Ant2

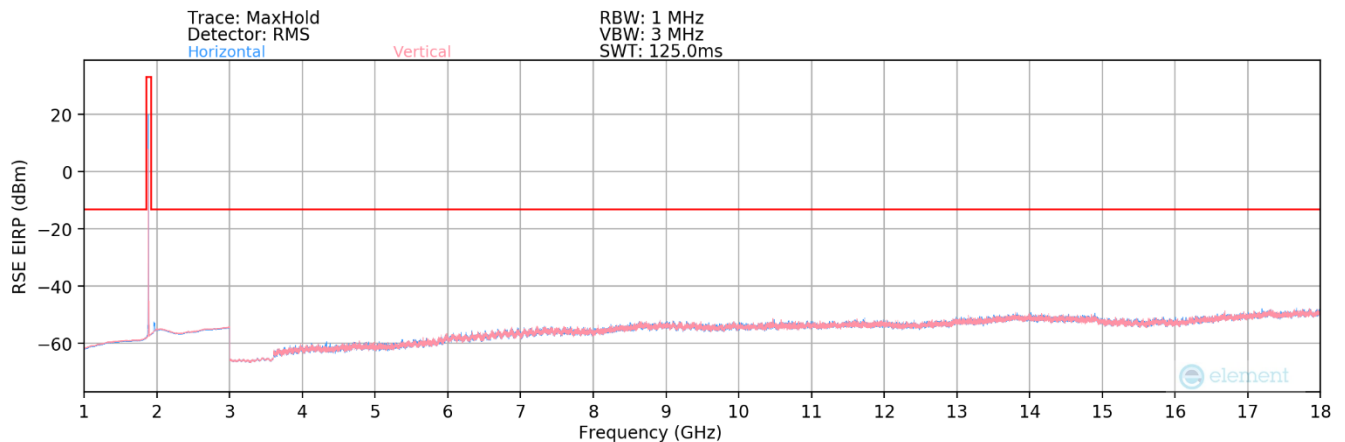


Plot 7-209. Radiated Spurious Plot (NR Band n25/2 - Ant2)

Bandwidth (MHz):	20
Frequency (MHz):	1882.5
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]
669.00	V	-	-	-85.35	28.48	50.13	-47.28	-13.00	-34.28
687.00	V	-	-	-85.37	28.62	50.25	-47.15	-13.00	-34.15

Table 7-42. Radiated Spurious Data (NR Band n25/2 – Mid Channel - Ant2)



Plot 7-210. Radiated Spurious Plot (NR Band n25/2 - Ant2)

FCC ID: A3LSMS948U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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Bandwidth (MHz):	20
Frequency (MHz):	1860
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]
3720.00	V	399	201	-68.44	1.10	39.66	-55.59	-13.00	-42.59
5580.00	V	133	223	-60.33	4.26	50.93	-44.33	-13.00	-31.33
7440.00	V	-	-	-78.88	9.31	37.43	-57.83	-13.00	-44.83
9300.00	V	-	-	-79.43	11.83	39.40	-55.86	-13.00	-42.86
11160.00	V	-	-	-80.17	12.44	39.27	-55.98	-13.00	-42.98

Table 7-43. Radiated Spurious Data (NR Band n25/2 – Low Channel - Ant2)

Bandwidth (MHz):	20
Frequency (MHz):	1882.5
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]
3765.00	V	299	209	-72.42	0.99	35.57	-59.69	-13.00	-46.69
5647.50	V	129	231	-71.91	4.53	39.62	-55.64	-13.00	-42.64
7530.00	V	-	-	-79.10	9.56	37.46	-57.79	-13.00	-44.79
9412.50	V	-	-	-80.49	12.18	38.69	-56.56	-13.00	-43.56
11295.00	V	-	-	-80.56	12.85	39.29	-55.97	-13.00	-42.97

Table 7-44. Radiated Spurious Data (NR Band n25/2 – Mid Channel - Ant2)

Bandwidth (MHz):	20
Frequency (MHz):	1905
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]
3810.00	V	178	211	-69.16	0.96	38.80	-56.46	-13.00	-43.46
5715.00	V	128	229	-67.28	4.47	44.19	-51.07	-13.00	-38.07
7620.00	V	-	-	-79.44	9.58	37.14	-58.11	-13.00	-45.11
9525.00	V	-	-	-80.49	11.91	38.42	-56.84	-13.00	-43.84
11430.00	V	-	-	-80.66	13.06	39.40	-55.85	-13.00	-42.85

Table 7-45. Radiated Spurious Data (NR Band n25/2 – High Channel - Ant2)

FCC ID: A3LSMS948U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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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 24, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

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

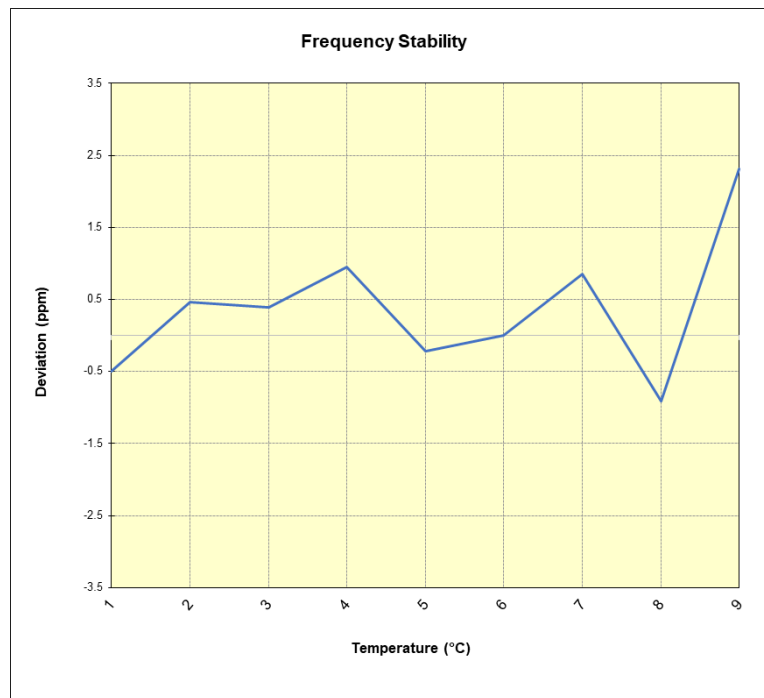
None

FCC ID: A3LSMS948U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 25/2

<table><tr><td colspan="2">Operating Frequency (Hz):</td><td colspan="4">1,882,500,000</td></tr><tr><td colspan="2">Ref. Voltage (VDC):</td><td colspan="4">4.464</td></tr></table>						Operating Frequency (Hz):		1,882,500,000				Ref. Voltage (VDC):		4.464			
Operating Frequency (Hz):		1,882,500,000															
Ref. Voltage (VDC):		4.464															
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)												
100 %	4.464	- 30	1,882,510,512	-928	-0.0000493												
		- 20	1,882,512,311	871	0.0000463												
		- 10	1,882,512,166	726	0.0000386												
		0	1,882,513,235	1,795	0.0000954												
		+ 10	1,882,511,037	-403	-0.0000214												
		+ 20 (Ref)	1,882,511,440	0	0.0000000												
		+ 30	1,882,513,038	1,598	0.0000849												
		+ 40	1,882,509,722	-1,718	-0.0000912												
		+ 50	1,882,515,796	4,356	0.0002314												
Battery Endpoint	3.682	+ 20	1,882,511,989	549	0.0000292												

Table 7-46. LTE Band 25/2 Frequency Stability Data



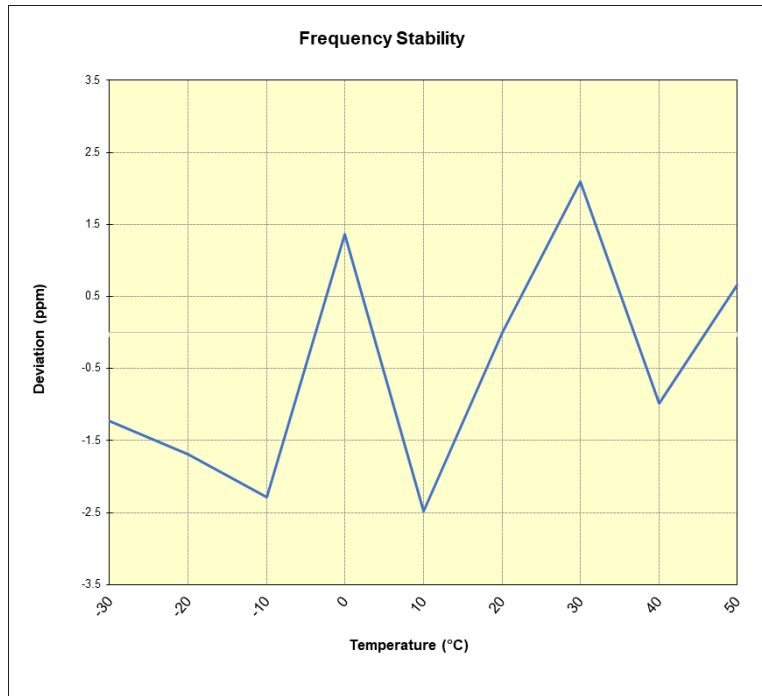
Plot 7-211. LTE Band 25/2 Frequency Stability Chart

FCC ID: A3LSMS948U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n25/2

<table><tr><td colspan="2">Operating Frequency (Hz):</td><td colspan="4">1,882,500,000</td></tr><tr><td colspan="2">Ref. Voltage (VDC):</td><td colspan="4">4.464</td></tr></table>						Operating Frequency (Hz):		1,882,500,000				Ref. Voltage (VDC):		4.464			
Operating Frequency (Hz):		1,882,500,000															
Ref. Voltage (VDC):		4.464															
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)												
100 %	4.464	- 30	1,882,499,634	-2,306	-0.0001225												
		- 20	1,882,498,766	-3,174	-0.0001686												
		- 10	1,882,497,646	-4,294	-0.0002281												
		0	1,882,504,506	2,566	0.0001363												
		+ 10	1,882,497,276	-4,664	-0.0002477												
		+ 20 (Ref)	1,882,501,940	0	0.0000000												
		+ 30	1,882,505,870	3,930	0.0002088												
		+ 40	1,882,500,087	-1,853	-0.0000984												
		+ 50	1,882,503,174	1,234	0.0000656												
Battery Endpoint	3.682	+ 20	1,882,500,194	-1,746	-0.0000927												

Table 7-47. NR Band n25/2 Frequency Stability Data



Plot 7-212. NR Band n25/2 Frequency Stability Chart

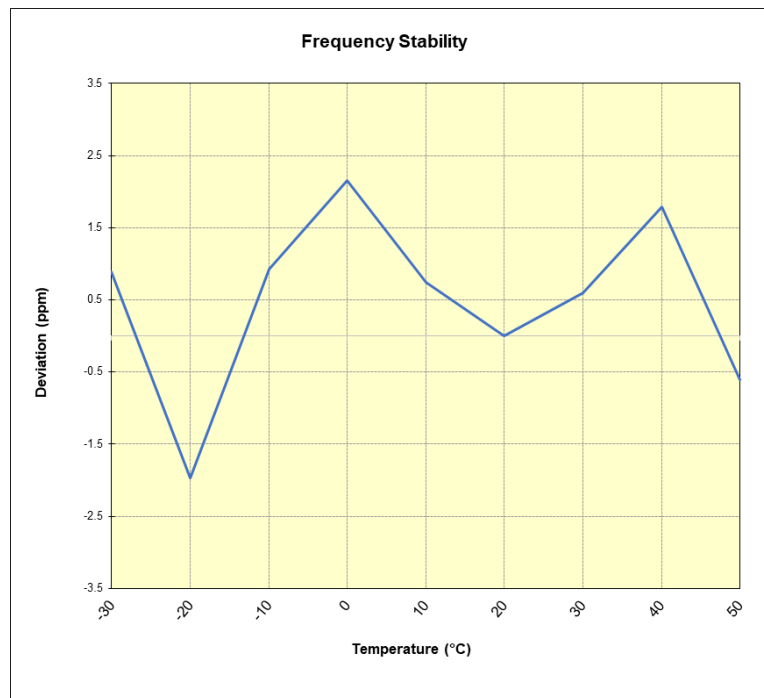
FCC ID: A3LSMS948U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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GSM/GPRS PCS

Operating Frequency (Hz):	1,880,000,000
Ref. Voltage (VDC):	4.464

Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.464	- 30	1,880,005,655	1,665	0.0000886
		- 20	1,880,000,280	-3,710	-0.0001973
		- 10	1,880,005,721	1,731	0.0000921
		0	1,880,008,044	4,054	0.0002156
		+ 10	1,880,005,394	1,404	0.0000747
		+ 20 (Ref)	1,880,003,990	0	0.0000000
		+ 30	1,880,005,112	1,122	0.0000597
		+ 40	1,880,007,358	3,368	0.0001791
		+ 50	1,880,002,846	-1,144	-0.0000609
Battery Endpoint	3.682	+ 20	1,880,004,672	682	0.0000363

Table 7-48. GSM/GPRS PCS Frequency Stability Data



Plot 7-213. GSM/GPRS PCS Frequency Stability Chart

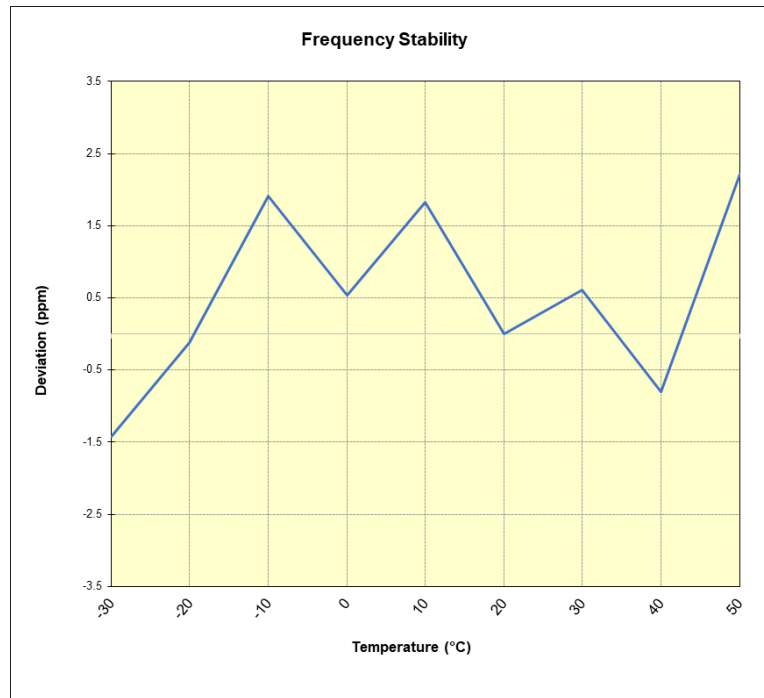
FCC ID: A3LSMS948U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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WCDMA PCS

Operating Frequency (Hz):	1,880,000,000
Ref. Voltage (VDC):	4.464

Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.464	- 30	1,880,232,964	-2,680	-0.0001425
		- 20	1,880,235,418	-226	-0.0000120
		- 10	1,880,239,246	3,602	0.0001916
		0	1,880,236,644	1,000	0.0000532
		+ 10	1,880,239,072	3,428	0.0001823
		+ 20 (Ref)	1,880,235,644	0	0.0000000
		+ 30	1,880,236,782	1,138	0.0000605
		+ 40	1,880,234,126	-1,518	-0.0000807
		+ 50	1,880,239,798	4,154	0.0002209
Battery Endpoint	3.682	+ 20	1,880,239,859	4,215	0.0002242

Table 7-49. WCDMA PCS Frequency Stability Data



Plot 7-214. WCDMA PCS Frequency Stability Chart

FCC ID: A3LSMS948U	PART 24 MEASUREMENT REPORT		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: A3LSMS948U** complies with all the requirements of Part 24 of the FCC rules.

- END OF TEST REPORT -

FCC ID: A3LSMS948U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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