

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]
15MHz	QPSK	831.5	V	136	99	1.29	1/37	18.51	17.65	0.058	38.45	-20.80
(Band 26	QPSK	836.5	V	134	111	1.31	1/37	18.25	17.41	0.055	38.45	-21.04
	QPSK	841.5	V	135	100	1.33	1/0	18.24	17.42	0.055	38.45	-21.03
only)	16-QAM	831.5	V	136	99	1.29	1/37	17.33	16.47	0.044	38.45	-21.98
	QPSK	829.0	V	136	99	1.27	1 / 49	18.59	17.71	0.059	38.45	-20.74
10 MHz	QPSK	836.5	V	134	111	1.31	1 / 49	18.55	17.71	0.059	38.45	-20.74
	QPSK	844.0	V	135	100	1.35	1 / 25	18.87	18.07	0.064	38.45	-20.38
	16-QAM	844.0	V	135	100	1.35	1/25	17.54	16.74	0.047	38.45	-21.71
	QPSK	826.5	V	136	99	1.26	1/24	17.41	16.52	0.045	38.45	-21.93
5 MHz	QPSK	836.5	V	134	111	1.31	1/24	18.02	17.18	0.052	38.45	-21.27
JIMITIZ	QPSK	846.5	V	135	100	1.36	1/0	18.33	17.54	0.057	38.45	-20.91
	16-QAM	846.5	V	135	100	1.36	1/12	17.20	16.41	0.044	38.45	-22.04
	QPSK	825.5	V	136	99	1.26	1 / 14	16.69	15.80	0.038	38.45	-22.65
3 MHz	QPSK	836.5	V	134	111	1.31	1/7	17.36	16.52	0.045	38.45	-21.93
5 111 12	QPSK	847.5	V	135	100	1.36	1/7	17.42	16.63	0.046	38.45	-21.82
	16-QAM	847.5	V	135	100	1.36	1/7	16.38	15.59	0.036	38.45	-22.86
	QPSK	824.7	V	136	99	1.25	1/5	16.32	15.42	0.035	38.45	-23.03
1.4 MHz	QPSK	836.5	V	134	111	1.31	1/3	17.24	16.40	0.044	38.45	-22.05
1.4 MILIZ	QPSK	848.3	V	135	100	1.37	1/0	16.76	15.98	0.040	38.45	-22.47
	16-QAM	836.5	V	134	111	1.31	1/3	16.34	15.50	0.035	38.45	-22.95
10 MHz	QPSK (Opposite Pol.)	844.0	Н	372	54	1.35	1/0	15.00	14.20	0.026	38.45	-24.25
TO MILZ	QPSK (WCP)	844.0	V	129	54	1.35	1/37	14.33	13.53	0.023	38.45	-24.92

Table 7-2. ERP Data (LTE Band 26/5)

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]
824.20	GPRS850	V	135	97	26.38	1.25	25.48	0.353	38.45	-12.97
836.60	GPRS850	V	135	103	27.14	1.31	26.30	0.427	38.45	-12.15
848.80	GPRS850	V	134	105	26.06	1.37	25.28	0.337	38.45	-13.17
836.60	GPRS850	Н	100	72	24.19	1.31	23.35	0.216	38.45	-15.10
836.60	EDGE850	V	135	103	22.00	1.31	21.16	0.131	38.45	-17.29
836.60	GPRS850 (WCP)	V	133	119	21.97	1.31	21.13	0.130	38.45	-17.32

Table 7-3. 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]
826.40	WCDMA850	V	138	87	17.72	1.26	16.83	0.048	38.45	-21.62
836.60	WCDMA850	V	129	96	18.11	1.31	17.27	0.053	38.45	-21.18
846.60	WCDMA850	V	132	93	17.44	1.36	16.65	0.046	38.45	-21.80
836.60	WCDMA850	н	389	75	14.27	1.31	13.43	0.022	38.45	-25.02
836.60	WCDMA850 (WCP)	V	129	64	13.22	1.31	12.38	0.017	38.45	-26.07

Table 7-4. ERP Data (WCDMA Cell)

FCC ID: A3LSMS908E	PCTEST* Proud to be part of @elemient	PART 22 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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7.6 Radiated Spurious Emissions Measurements

Test Overview

Radiated spurious emissions measurements are performed using the field strength conversion method described in KDB 971168 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using horizontally and vertically polarized tuned dipole 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

KDB 971168 D01 v03r01 - Section 5.8

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 > 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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<u>Test Setup</u>

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

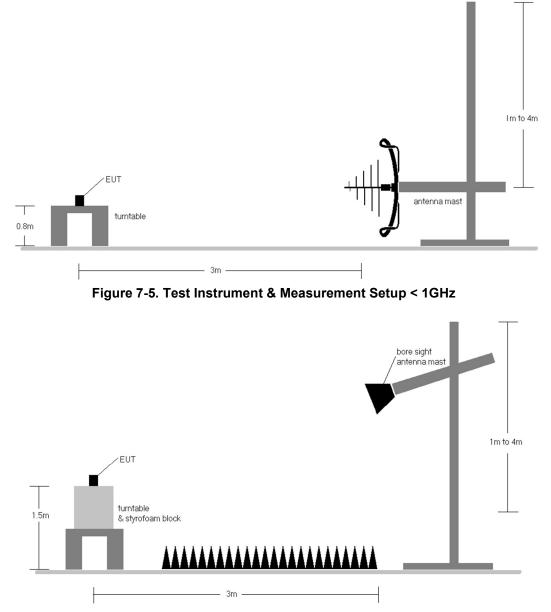


Figure 7-6. Test Instrument & Measurement Setup >1 GHz

FCC ID: A3LSMS908E	PCTEST Proud to be part of @ elemient	PART 22 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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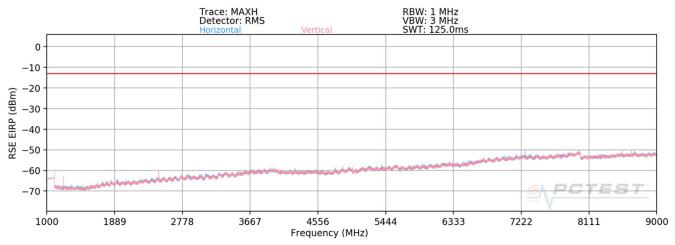
Test Notes

- Field strengths are calculated using the Measurement quantity conversions in KDB 971168 Section 5.8.4.
 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 is 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 power is 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.

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LTE Band 26



Plot 7-55. Radiated Spurious Plot (LTE Band 26)

Bandwidth (MHz):	15
Frequency (MHz):	831.5
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]
1663.00	V		-	-75.24	-7.43	24.33	-70.93	-13.00	-57.93
2494.50	V	-	-	-76.07	-4.09	26.84	-68.41	-13.00	-55.41
3326.00	V	-		-75.77	-0.80	30.43	-64.83	-13.00	-51.83
4157.50	V	-	-	-76.74	1.08	31.34	-63.92	-13.00	-50.92

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

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]
1673.00	V	-	-	-75.45	-7.32	24.23	-71.03	-13.00	-58.03
2509.50	V	-	-	-75.32	-3.98	27.70	-67.56	-13.00	-54.56
3346.00	V	-	-	-76.95	-0.69	29.36	-65.90	-13.00	-52.90
4182.50	V	-	-	-77.32	0.53	30.21	-65.05	-13.00	-52.05

Table 7-6. Radiated Spurious Data (LTE Band 26 – Mid Channel)

FCC ID: A3LSMS908E	PCTEST* Proud to be part of @element	PART 22 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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Bandwidth (MHz):	15
Frequency (MHz):	841.5
RB / Offset:	1/37

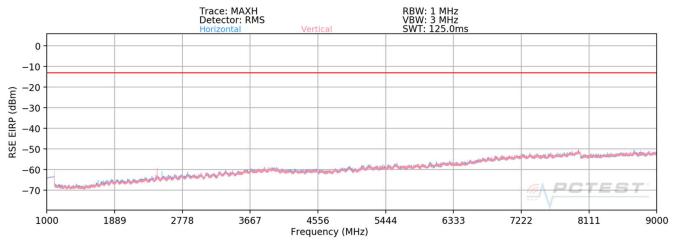
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1683.00	V	-	-	-75.54	-7.20	24.26	-71.00	-13.00	-58.00
2524.50	V	-	-	-75.11	-3.87	28.02	-67.24	-13.00	-54.24
3366.00	V	-	-	-76.02	-0.54	30.44	-64.81	-13.00	-51.81
4207.50	V	-	-	-76.33	0.43	31.10	-64.16	-13.00	-51.16

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

FCC ID: A3LSMS908E	PCTEST Proud to be part of @ element	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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GSM/GPRS Cell



Plot 7-56. Radiated Spurious Plot (GPRS Cell)

Mode:	GPRS 1 Tx Slot
Channel:	128
Frequency (MHz):	824.2

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]
1648.40	Н)-	-	-66.10	-7.51	33.39	-61.87	-13.00	-48.87
2472.60	н	153	125	-63.68	-4.19	39.13	-56.12	-13.00	-43.12
3296.80	Н	-	-	-68.43	-0.88	37.69	-57.57	-13.00	-44.57
4121.00	н	<u> </u>	-	-68.22	0.79	39.57	-55.69	-13.00	-42.69
4945.20	Н	-	-	-68.56	1.60	40.04	-55.22	-13.00	-42.22

Table 7-8. Radiated Spurious Data (GPRS Cell – Low Channel)

Mode:	GPRS 1 Tx Slot
Channel:	190
Frequency (MHz):	836.6

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]
1673.20	Н	-	-	-66.27	-7.32	33.41	-61.85	-13.00	-48.85
2509.80	Н	164	124	-63.65	-3.98	39.37	-55.89	-13.00	-42.89
3346.40	Н	-	-	-67.06	-0.69	39.25	-56.01	-13.00	-43.01
4183.00	Н	-	-	-67.27	0.52	40.25	-55.00	-13.00	-42.00
5019.60	Н	-	-	-67.94	1.38	40.44	-54.82	-13.00	-41.82

Table 7-9. Radiated Spurious Data (GPRS Cell – Mid Channel)

FCC ID: A3LSMS908E	PCTEST* Proud to be part of @element	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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Mode:	GPRS 1 Tx Slot
Channel:	251
Frequency (MHz):	848.8

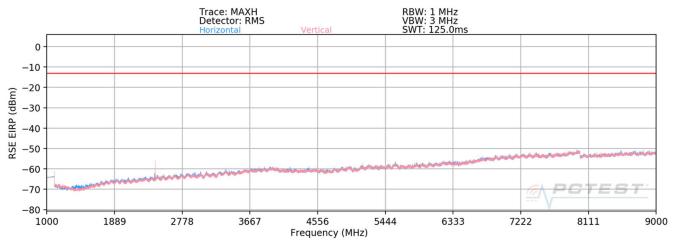
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1697.60	н	-	-	-66.61	-7.03	33.36	-61.90	-13.00	-48.90
2546.40	Н	172	135	-66.14	-4.11	36.75	-58.51	-13.00	-45.51
3395.20	Н	-	-	-68.10	-0.98	37.92	-57.34	-13.00	-44.34
4244.00	Н	-	-	-68.48	0.41	38.93	-56.33	-13.00	-43.33
5092.80	н	-	-	-68.50	2.30	40.80	-54.46	-13.00	-41.46

Table 7-10. Radiated Spurious Data (GPRS Cell – High Channel)

FCC ID: A3LSMS908E	PCTEST [®] Proud to be part of ® element	PART 22 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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WCDMA Cell



Plot 7-57. Radiated Spurious Plot (WCDMA Cell)

Mode:	WCDMA RMC
Channel:	4132
Frequency (MHz):	826.4

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]
1652.80	н	-	-	-75.12	-7.50	24.38	-70.87	-13.00	-57.87
2479.20	Н	-		-75.75	-4.17	27.08	-68.18	-13.00	-55.18
3305.60	Н	-	-	-77.33	-0.87	28.80	-66.46	-13.00	-53.46
4132.00	Н	-	-	-77.42	0.97	30.55	-64.71	-13.00	-51.71

Table 7-11. Radiated Spurious Data (WCDMA Cell – Low Channel)

Mode:	WCDMA RMC
Channel:	4183
Frequency (MHz):	836.6

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]
1673.20	Н	-	-	-75.17	-7.32	24.51	-70.75	-13.00	-57.75
2509.80	Н	-	-	-76.00	-3.98	27.02	-68.24	-13.00	-55.24
3346.40	н		-	-76.02	-0.69	30.29	-64.97	-13.00	-51.97
4183.00	Н	-	-	-76.94	0.52	30.58	-64.67	-13.00	-51.67

Table 7-12. Radiated Spurious Data (WCDMA Cell – Mid Channel)

FCC ID: A3LSMS908E		PART 22 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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Mode:	WCDMA RMC
Channel:	4233
Frequency (MHz):	846.6

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]
1693.20	н	-	-	-75.34	-7.08	24.58	-70.68	-13.00	-57.68
2539.80	Н	-	-	-75.10	-4.02	27.88	-67.38	-13.00	-54.38
3386.40	н	-	-	-77.29	-0.81	28.90	-66.36	-13.00	-53.36
4233.00	Н	-	-	-76.50	0.43	30.93	-64.32	-13.00	-51.32

Table 7-13. Radiated Spurious Data (WCDMA Cell – High Channel)

FCC ID: A3LSMS908E	Poctest* Proud to be part of @element	PART 22 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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7.7 Frequency Stability / Temperature Variation

Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of ANSI/TIA-603-E-2016. 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 22 and RSS-132, the frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5 ppm) of the center frequency.

Test Procedure Used

ANSI/TIA-603-E-2016

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

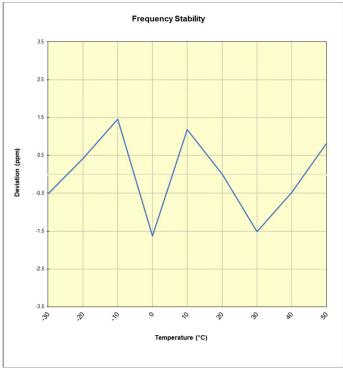
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LTE Band 26/5

LTE Band 26/5								
	Operating F	requency (Hz):	836,50	00,000				
	Ref.	Voltage (VDC):	4.	39				
		Deviation Limit:	± 0.00025%	or 2.5 ppm				
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)			
		- 30	836,501,013	-434	-0.0000519			
		- 20	836,501,799	352	0.0000421			
		- 10	836,502,671	1,224	0.0001463			
		0	836,500,083	-1,364	-0.0001631			
100 %	4.39	+ 10	836,502,434	987	0.0001180			
		+ 20 (Ref)	836,501,447	0	0.0000000			
		+ 30	836,500,179	-1,268	-0.0001516			
		+ 40	836,501,049	-398	-0.0000476			
		+ 50	836, 502, 133	686	0.0000820			
Battery Endpoint	3.80	+ 20	836,501,342	-105	-0.0000126			

Table 7-14. LTE Band 26/5 Frequency Stability Data



Plot 7-58. LTE Band 26/5 Frequency Stability Chart

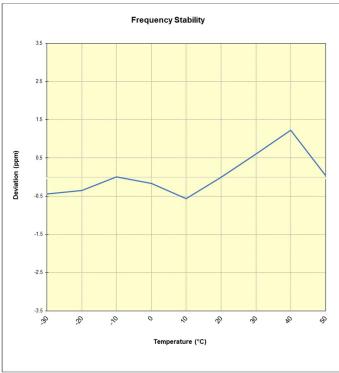
FCC ID: A3LSMS908E		PART 22 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager	
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GSM/GPRS Cell

GSM/GPRS Cellular								
	Operating F	requency (Hz):	836,60	00,000				
	Ref.	Voltage (VDC):	4.	39				
		Deviation Limit:	± 0.00025%	or 2.5 ppm				
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)			
		- 30	836,599,699	-370	-0.0000442			
		- 20	836,599,773	-296	-0.0000354			
		- 10	836,600,072	3	0.0000004			
		0	836,599,929	-141	-0.0000168			
100 %	4.39	+ 10	836, 599, 599	-471	-0.0000562			
		+ 20 (Ref)	836,600,069	0	0.0000000			
		+ 30	836,600,579	510	0.0000610			
		+ 40	836,601,099	1,030	0.0001231			
		+ 50	836,600,100	31	0.0000037			
Battery Endpoint	3.80	+ 20	836,600,173	104	0.0000124			

Table 7-15. GSM/GPRS Cell Frequency Stability Data





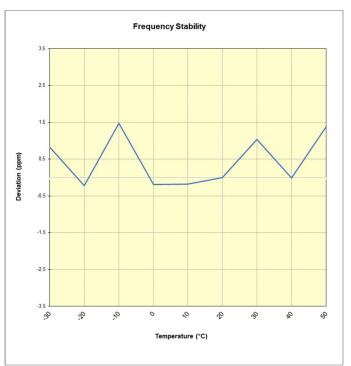
FCC ID: A3LSMS908E		PART 22 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:		Dere 59 of 60	
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WCDMA Cell

WCDMA Cellular										
	Operating F	requency (Hz):	836,600,000							
	Ref. Voltage (VDC):		4.39							
	Deviation Limit:		± 0.00025% or 2.5 ppm							
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)					
		- 30	836,600,798	691	0.0000826					
		- 20	836,599,922	-185	-0.0000221					
		- 10	836,601,339	1,232	0.0001473					
		0	836, 599, 945	-162	-0.0000194					
100 %	4.39	+ 10	836, 599, 956	-151	-0.0000180					
		+ 20 (Ref)	836,600,107	0	0.0000000					
		+ 30	836,600,975	868	0.0001038					
		+ 40	836,600,094	-13	-0.0000016					
		+ 50	836,601,265	1,158	0.0001384					
Battery Endpoint	3.80	+ 20	836,600,199	92	0.0000110					

Table 7-16. WCDMA Cell Frequency Stability Data



Plot 7-60. WCDMA Cell Frequency Stability Chart

FCC ID: A3LSMS908E	PCTEST* Proud to be part of @element	PART 22 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:		Page 59 of 60	
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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: A3LSMS908E** complies with all the requirements of Part 22 of the FCC rules.

FCC ID: A3LSMS908E	PCTEST* Proud to be part of @ element	PART 22 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 60 of 60
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