

June 15, 2000

Federal Communications Commission
Equipment Approval Services
7435 Oakland Mills Road
Columbia, MD 21046
Attn: Andy Leimer/ Kwok Chan

**SUBJECT: Samsung Electronics Co., Ltd.
FCC ID: A3LSPHT100 (Tri-Mode Phone)
731 Confirmation Number: EA97202
Correspondence Reference No.: 14294**

Dear Andy / Kwok:

Submitted herewith, on behalf of Samsung Electronics Co., Ltd., is an amendment in response to your e-mail dated May 30, 2000 requesting additional information for the subject application.

1. Attached is the revised Tune-up Procedure for AMPS mode indicating 25.8dBm + .2dB/ -4dB tolerance
2. The following are the revised Tune up procedures for ALL modes, in conducted levels.
FM ___25.8 dBm + .2 / -4
CDMA ___24.8 dBm + .2 / -4
PCS ___24.8 dBm + .2 / -4

We trust this information is sufficient to issue the grant asap. If you have any further questions, please do not hesitate to contact us. Thank you.

Sincerely,



Randy Ortanez
President & Chief Engineer

cc: Wallace Oh, Engineering Manager
Samsung American QA Lab

NVLAP[®]

CHANGE TO TEST MODE

- A. To change the phone from Normal Mode to test Mode, You should enter the following keys.
" 4 7 * 8 6 9 # 1 2 3 5 "
- B. The command •0 1"(Suspend) is entered to start test.
- C. To finish the Test Mode, You should enter the command " 0 2 ".

CHANNEL SELECTION AND TX POWER OUTPUT LEVEL CONTROL

1. AMPS

- A. You should change the phone from Normal Mode to AMPS Test mode
" 0 1 , 2 0 1 0 0 1 , 0 2 "
- B. The command •0 1"(Suspend) is entered to start test.
- C. You should enter the following keys.
" 0 9 X X X X #, 0 7, 7 3 X, 7 2 X X X "
- If you enter the command "0 9", You can select the channel
ex) 0 9 0 3 8 3 (under-bar means channel number)
 - The command "0 7•means Carrier On (Carrier Off : •0 8•)
 - If you enter the command "7 3", You can select power mode.
(" 0 " : High Power Mode - above 0dBm,
" 1 " : Low Power Mode - below 0dBm)
 - If you enter the command "7 2", You can control the power output level.
Following under-bar means AGC code. And you can control the power output level using [SEND] or [END] key.
ex) 7 2 4 7 5
- D. After enter the command "9 2" and control the Tx Power Output Level to be each power level step using [SEND] or [END] key , press "OK" key to store Data in EEPROM.

LEVEL	LCD Display	TX OUTPUT POWER	STORE
2	TXpwr[02]	+25.8dBm +.2 / -4dB	OK
3	TXpwr[03]	+24dBm +2 / -4dB	OK
4	TXpwr[04]	+20dBm +2 / -4dB	OK
5	TXpwr[05]	+16dBm +2 / -4dB	OK
6	TXpwr[06]	+12dBm +2 / -4dB	OK
7	TXpwr[07]	+8dBm +2 / -4dB	OK

(2)TRANSMITTER

RF output power	25.8dBm (+2-4dB)
Carrier ON/OFF conditions "ON" Condition "OFF" Condition	within ± 3 dB of specification output (in 2 $\pm$) below -60dBm (in 2 $\pm$)
Compressor Compression Rate Attack Time Recovery Time Reference Input	2:1 3 $\pm$ 13.5 $\pm$ Input level for producing a nominal ± 2.9 kHz peak frequency deviation of transmitted carrier
Preamplasis	6dB/OCT within 0.3 ~ 3kHz
Maximum Frequency Deviation F3 of G3 Supervisory Audio Tone Signaling Tone Wideband Data	± 12 kHz ± 2 kHz ($\pm 10\%$) ± 8 kHz ($\pm 10\%$) ± 8 kHz ($\pm 10\%$)
Post Deviation Limiter Filter 3.0 ~ 5.9kHz 5.9 ~ 6.1kHz 6.1 ~ 15kHz Over 15kHz	above 40 LOG (F/3000) dB above 35 dB above 40 LOG (F/3000) dB above 28 dB
Spectrum Noise Suppression For all modulation $f_c + 20$ kHz ~ $f_c + 45$ kHz For modulation by voice and SAT $f_c + 45$ kHz For modulation by WBD(without SAT) and ST (with SAT) $f_c + 45$ kHz ~ $f_c + 60$ kHz $f_c + 60$ kHz ~ $f_c + 90$ kHz $f_c + 90$ kHz ~ $2f_c$	 above 26 dB above 63 + 10 LOG (PY) dB above 45 dB above 65 dB above 63 + 10 LOG (PY) dB (where f_c =carrier frequency PY=mean output power in watts)
Harmonic and conducted Spurious Emissions	below 43 + 10 LOG (PY) dB