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