

Radiated Restricted Band Measurements §15.205 / §15.209

Special attention is made for the EUT's harmonic and spurious radiated emission in the restricted bands of operations. The EUT was tested from 9kHz and up to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHZ. Above 1 GHz, average measurement was used, using RBW = 1MHz, VBW = 10Hz and linearly polarized horn antennas. All harmonics/spurs are at least 20dB below the highest emission in the authorized band using RBW = 100kHz. In addition, peak measurements were taken to ensure that the peak levels are not more than 20dB above the average limit. All out of band emissions, other than those created by the spreading sequence, data sequence, and the carrier modulation must not exceed the limits show in Table A-4 per Section 15.209.

Frequency	F/S Measured Dista [μV/m] [Meters]	
0.009 – 0.490 MHz	2400/F (kHz)	300
0.490 – 1.705 MHz	24000/F (kHz)	30
1.705 – 30.00 MHz	30	30
30.00 – 88.00 MHz	100	3
88.00 – 216.0 MHz	150	3
216.0 – 960.0 MHz	200	3
Above 960.0 MHz	500	3

Table A-4. Radiated Limits

TEST MEASUREMENT EQUIPMENT

Agilent E4448A	PSA Spectrum Analyzer 3Hz - 50GHz
HP 8566B	Spectrum Analyzer 100 Hz - 22GHz
HP 83017A	Microwave Preamplifier 40dB Gain (0.5 - 26.5GHz)
EMCO 3115	Horn Antenna (1 - 18GHz)
EMCO 3116	Horn Antenna (18GHz - 40GHz)
HP 8493B	10dB Attenuator
MicroCoax Cables	Low Loss Microwave Cables (1 - 26.5GHz)

PCTEST™ PT. 15.247 BT TEST REPORT	PCTEST:	BLUETOOTH SUPPLEMENTAL DATA	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	FCC ID: A3LSGHI600	Page 1 of 3
0607250635	July 26, 2006	Single-Band PCS GSM Phone with Bluetooth	FCC ID. ASESGRIOU	



Radiated Restricted Band Measurements (Cont'd) §15.205 / §15.209

Mode: Bluetooth

Measurement Distance: 3 Meters

Operating Frequency: 2480MHz

Channel: 78

Frequency [MHz]	Level [dBm]	AFCL [dB]	Pol. [H/V]	Field Strength [dBµV/m]	Field Strength [µV/m]	Margin [dB]
2484.7	-113.71	30.81	V	24.10	16.03	-29.88
2486.3	-114.74	30.82	V	23.08	14.26	-30.90
2487.6	-114.25	30.83	Н	23.58	15.10	-30.40
2494.1	-114.51	30.83	V	23.32	14.66	-30.66
2495.9	-114.19	30.85	Н	23.66	15.24	-30.32
2496.5	-115.11	30.86	V	22.75	13.72	-31.23

Table A-8. Radiated Restricted Band Measurements at 3-meters

NOTES

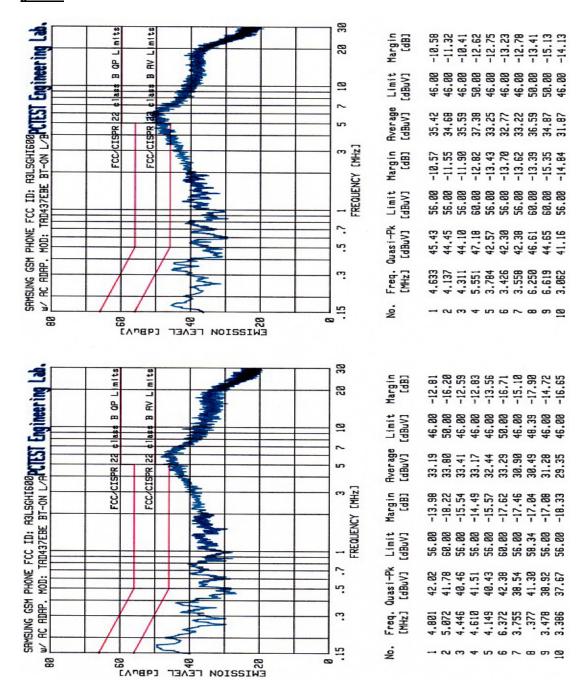
- 1. The antenna is manipulated through typical positions, polarity and length during the testing.
- 2. The EUT is supplied with the minimal AC voltage or/and a new/fully re-charged battery.
- 3. The spectrum is measured from 9kHz up to the 10th harmonic and the worst-case emissions are reported.
- 4. Above 1 GHz the limit is $500\mu V/m$.
- $5. < -135 \; dBm$ is below the analyzer measurement floor level.
- 6. The peak emissions above 1 GHz are not more than 20 dB above the average limit.

PCTEST™ PT. 15.247 BT TEST REPORT	PCTEST	BLUETOOTH SUPPLEMENTAL DATA	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	FCC ID: A3LSGHI600	Page 2 of 3
0607250635	July 26, 2006	Single-Band PCS GSM Phone with Bluetooth	FCC ID. ASESGINOU	



Line-Conducted Test Data

§15.207



Notes:

- 1. All Modes of operation were investigated and the worst-case emissions are reported.
- 2. The limit for Class B device(s) from 150kHz to 30MHz are Specified in EN55022.
- 3. Line A = Phase; Line B = Neutral
- 4. Deviations to the Specifications: None.

PCTEST™ PT. 15.247 BT TEST REPORT	@ PCTEST	BLUETOOTH SUPPLEMENTAL DATA	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	FCC ID: A3LSGHI600	Page 3 of 3
0607250635	July 26, 2006	Single-Band PCS GSM Phone with Bluetooth		rage 3 or 3