

RF Exposure / MPE Calculation

No. : 33FE0016-HO-B

Applicant : SAMSUNG ELECTRONICS CO., LTD.
Type of Equipment : GSM/GPRS 850/1900 and WCDMA850 Phone with
BT v3.0(EDR), 802.11b/g/n, EDGE Rx only and Hotspot
Model No. : GT-S5303B
FCC ID : A3LGTS5303B

SAMSUNG ELECTRONICS CO., LTD. declares that Model : GT-S5303B
complies with FCC radiation exposure requirement specified in the FCC Rules 2.1093.

The "GT-S5303B" has 3.96 mW of conducted Average Output power and 1.02 mW of EIRP.
This kind of equipment is below SAR Exclusion Threshold (KDB447498 D01 v05)
so that SAR testing is excluded. The Following calculation is the reference data for 20cm distance.

RF Exposure Calculations:

The following information provides the minimum separation distance for the highest gain
antenna provided with the "GT-S5303B" as calculated
from FCC OET Bulletin 65 Appendix A, Table (B) Limits for General Population / Uncontrolled
Exposure. This calculation is based on the highest EIRP possible from the system,
considering average power and antenna gain, and considering a 1.0mW/cm² uncontrolled
exposure limit. The Friis formula used was:

$$S = (P * G) / (4 * \pi * r^2)$$

Where

P = 3.96 mW (Average output power)
G = 0.26 Numerical Antenna gain; equal to -5.88 dBi
r = 20.0 cm

For: GT-S5303B

$$S = 0.00020 \text{ mW/cm}^2$$

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