APPENDIX F

The Validation Measurements

SAMSUNG FCC ID : A3LSGHT309H -- GSM1900 Head SAR

DUT: Dipole 1900 MHz; Serial: 5d023

Program Name: 1900 Dipole Validation 2005.08.23
Procedure Name: 1900MHz @250mW
Procedure Notes: Meas.Tissue Temp(celsius)-22.0;Test Date-23/Aug/2005[OET Bulletin 65-Supplement C, July 2001]

Communication System: CW; Frequency: 1900 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1900 MHz; σ = 1.39 mho/m; ε_r = 39.8; ρ = 1000 kg/m^3

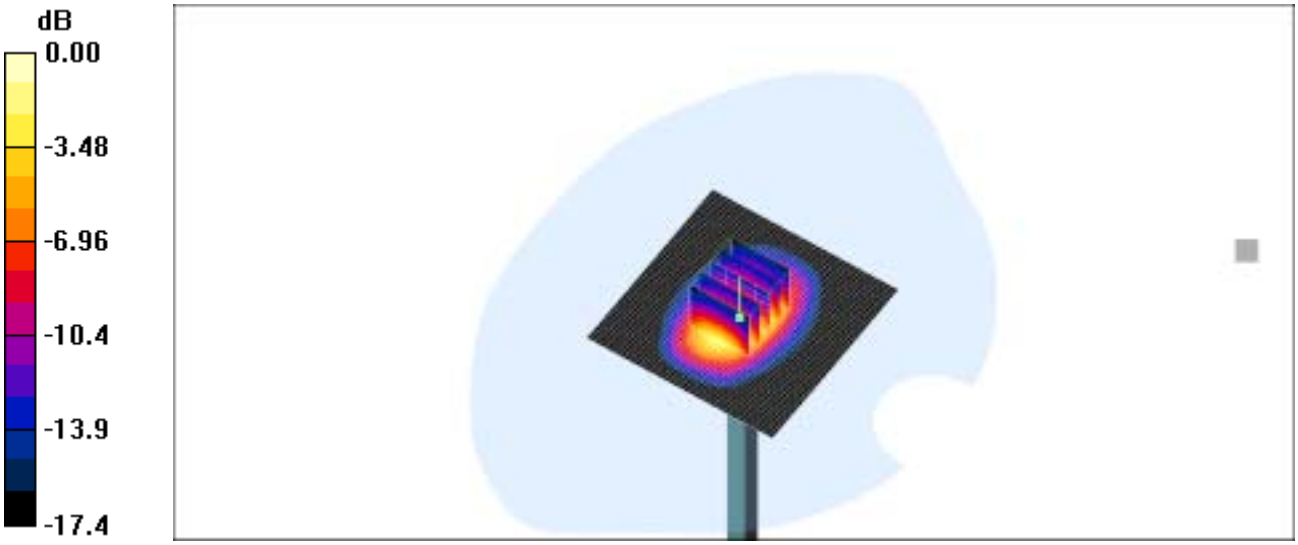
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(8.29, 8.29, 8.29); Calibrated: 2004-12-15
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn468; Calibrated: 2004-12-07
- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1248
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

1900MHz @250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 88.8 V/m; Power Drift = -0.023 dB
Peak SAR (extrapolated) = 18.2 W/kg
SAR(1 g) = 9.81 mW/g
Maximum value of SAR (measured) = 11.0 mW/g

1900MHz @250mW/Area Scan (51x51x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 14.9 mW/g



0 dB = 11.0mW/g