

## **APPENDIX E**

### **The Validation Measurements**

### 1900MHz Dipole Validation

DUT: Dipole 1900 MHz; Serial: 5d023

Program Name: 1900MHz Dipole Validation 2006.03.30

Procedure Name: 1900MHz @ 250mW

#### Procedure Notes:

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

Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.43$  mho/m;  $\epsilon_r = 39.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(8.04, 8.04, 8.04); Calibrated: 2005-11-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn468; Calibrated: 2006-01-27
- Phantom: PHANTOM #1; Type: SAM; Serial: TP-1143
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

**1900MHz @ 250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 87.2 V/m; Power Drift = -0.058 dB

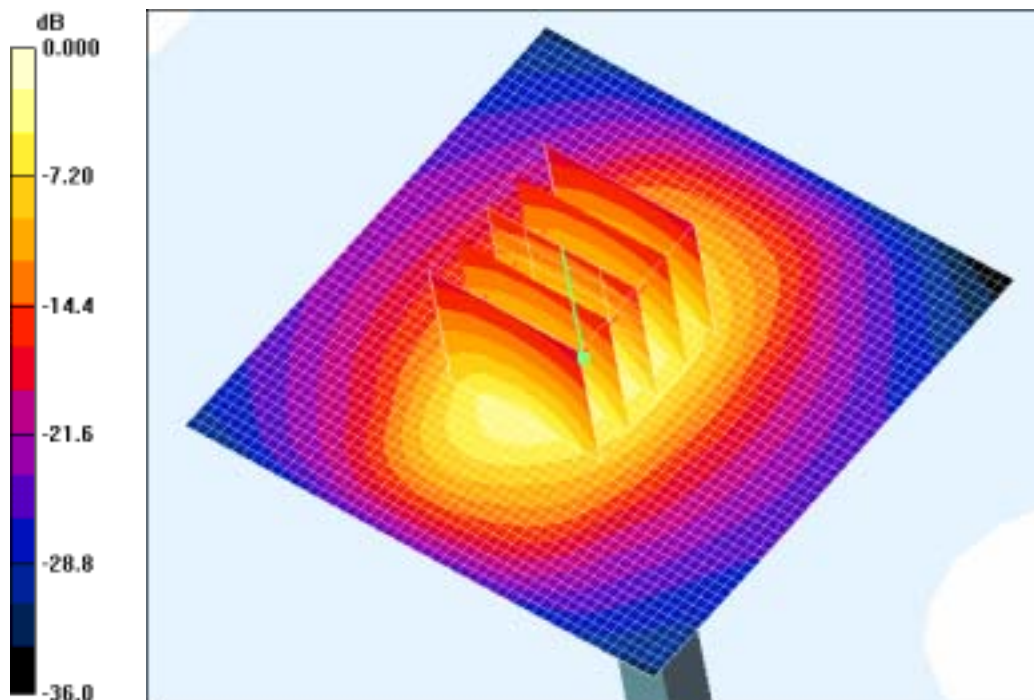
Peak SAR (extrapolated) = 18.6 W/kg

**SAR(1 g) = 10.1 mW/g**

Maximum value of SAR (measured) = 11.3 mW/g

**1900MHz @ 250mW/Area Scan (51x51x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 14.5 mW/g



0 dB = 14.5mW/g