

### 835MHz Dipole Validation

DUT: Dipole 835 MHz; Serial: 4d014

Program Name: 835MHz Dipole Validation 2006.01.26

Procedure Name: 835MHz @ 250mW dipole SN:4d014

#### Procedure Notes:

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.91$  mho/m;  $\epsilon_r = 40.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(5.75, 5.75, 5.75); Calibrated: 2005-05-26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn533; Calibrated: 2005-11-21
- Phantom: PHANTOM #1; Type: SAM; Serial: TP-1143
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

**835MHz @ 250mW dipole SN:4d014/Area Scan (51x51x1):** Measurement grid:

$dx=20$ mm,  $dy=20$ mm

Maximum value of SAR (interpolated) = 2.62 mW/g

**835MHz @ 250mW dipole SN:4d014/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

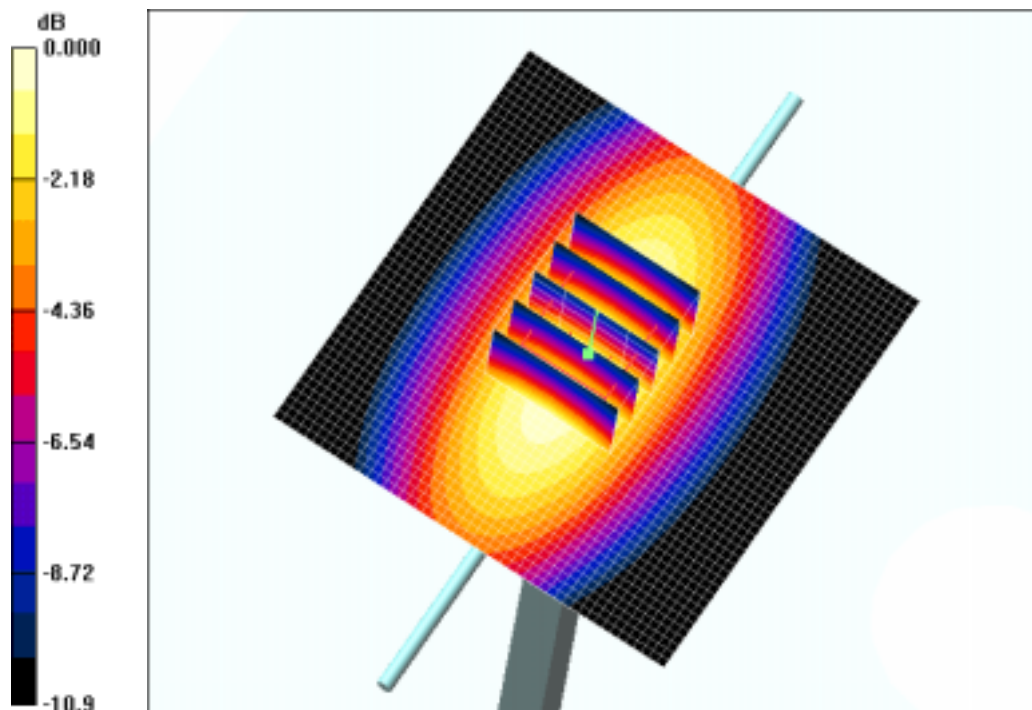
$dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 53.7 V/m; Power Drift = -0.006 dB

Peak SAR (extrapolated) = 3.65 W/kg

**SAR(1 g) = 2.4 mW/g**

Maximum value of SAR (measured) = 2.59 mW/g



0 dB = 2.59mW/g

**1900MHz Dipole Validation**

**DUT: Dipole 1900 MHz; Serial: 5d023**

**Program Name: 1900MHz Dipole Validation 2006.01.25**

**Procedure Name: 1900MHz @ 250mW**

**Procedure Notes:**

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

Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.41$  mho/m;  $\epsilon_r = 39.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(4.92, 4.92, 4.92); Calibrated: 2005-05-26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn533; Calibrated: 2005-11-21
- Phantom: PHANTOM #1; Type: SAM; Serial: TP-1143
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

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

Maximum value of SAR (interpolated) = 16.0 mW/g

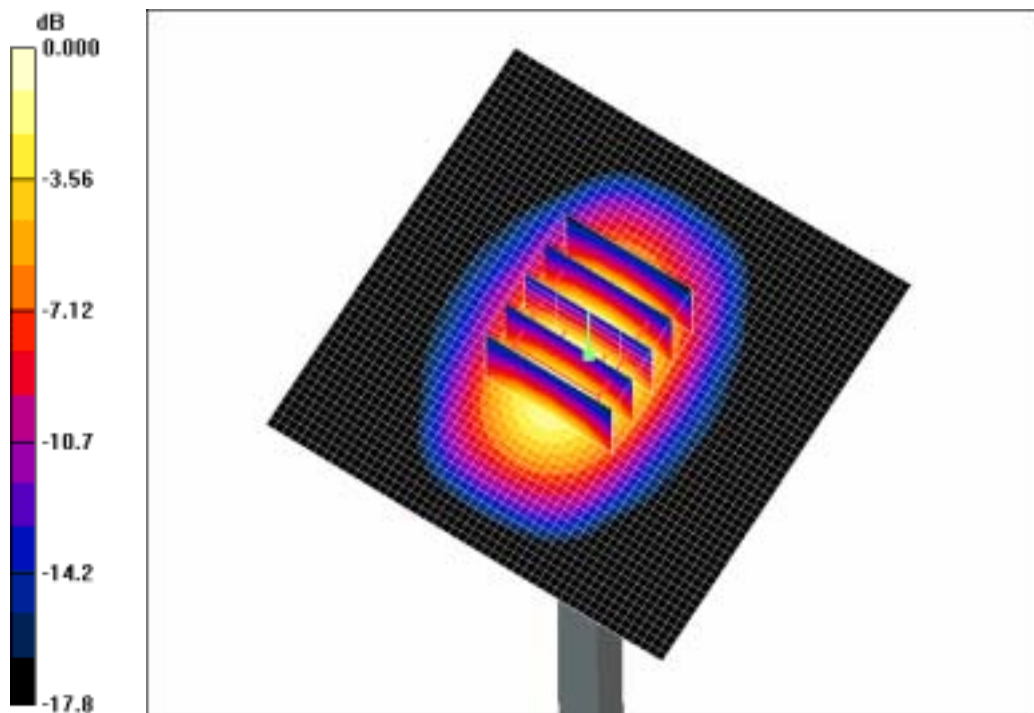
**1900MHz @ 250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 92.1 V/m; Power Drift = -0.042 dB

Peak SAR (extrapolated) = 18.2 W/kg

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

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



0 dB = 11.3mW/g