

## **Appendix B**

### **Measurement Plots**

Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

## Dipol Valid.1900(h)\_250mW 14.3.06

**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d025**

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

Medium: Head 1900 MHz Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.42$  mho/m;  $\epsilon_r = 39.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1711; ConvF(4.84, 4.84, 4.84); Calibrated: 11/21/2005
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 11/23/2005
- Phantom: SAM 12; Type: TP-1217; Serial: QD000P40CA
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

**Dipol 1900 (250mW)/Area Scan (61x81x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 12.1 mW/g

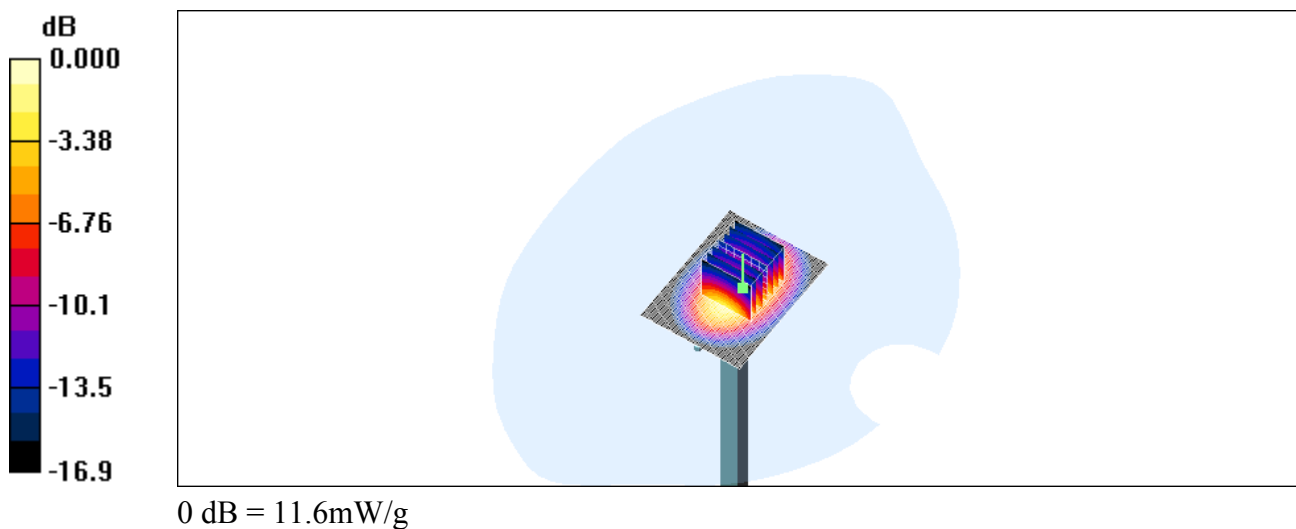
**Dipol 1900 (250mW)/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 95.2 V/m; Power Drift = -0.017 dB

Peak SAR (extrapolated) = 17.3 W/kg

**SAR(1 g) = 10.4 mW/g; SAR(10 g) = 5.52 mW/g**

Maximum value of SAR (measured) = 11.6 mW/g



Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

## Dipol Valid.1900(m)\_250mW 14.3.06

**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d025**

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

Medium: Muscle 1900 MHz Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.58$  mho/m;  $\epsilon_r = 51.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1711; ConvF(4.31, 4.31, 4.31); Calibrated: 11/21/2005
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 11/23/2005
- Phantom: SAM 12; Type: TP-1217; Serial: QD000P40CA
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

**Dipol 1900 (250mW)/Area Scan (61x81x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm  
Maximum value of SAR (interpolated) = 13.2 mW/g

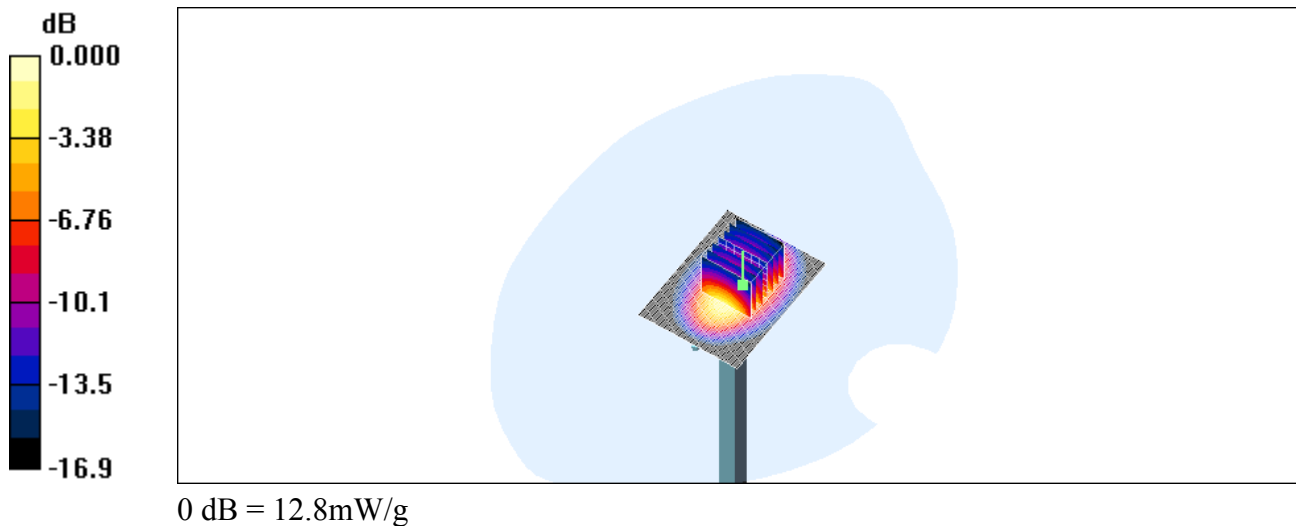
**Dipol 1900 (250mW)/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 93.4 V/m; Power Drift = 0.004 dB

Peak SAR (extrapolated) = 19.4 W/kg

**SAR(1 g) = 11.2 mW/g; SAR(10 g) = 6.01 mW/g**

Maximum value of SAR (measured) = 12.8 mW/g



Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

## 1900\_right\_ch512\_cheek

**DUT: Triple-Band GSM 900 (E-GSM) / DCS 1800 / PCS1900 (with WAP & GPRS); Type: PG\_3700; Serial: ---**

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

Medium: Head 1900 MHz Medium parameters used:  $f = 1850.2 \text{ MHz}$ ;  $\sigma = 1.37 \text{ mho/m}$ ;  $\epsilon_r = 39.9$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1711; ConvF(4.84, 4.84, 4.84); Calibrated: 11/21/2005
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 11/23/2005
- Phantom: SAM 12; Type: TP-1217; Serial: QD000P40CA
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

**PG\_3700/Area Scan (91x141x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (interpolated) =  $1.23 \text{ mW/g}$

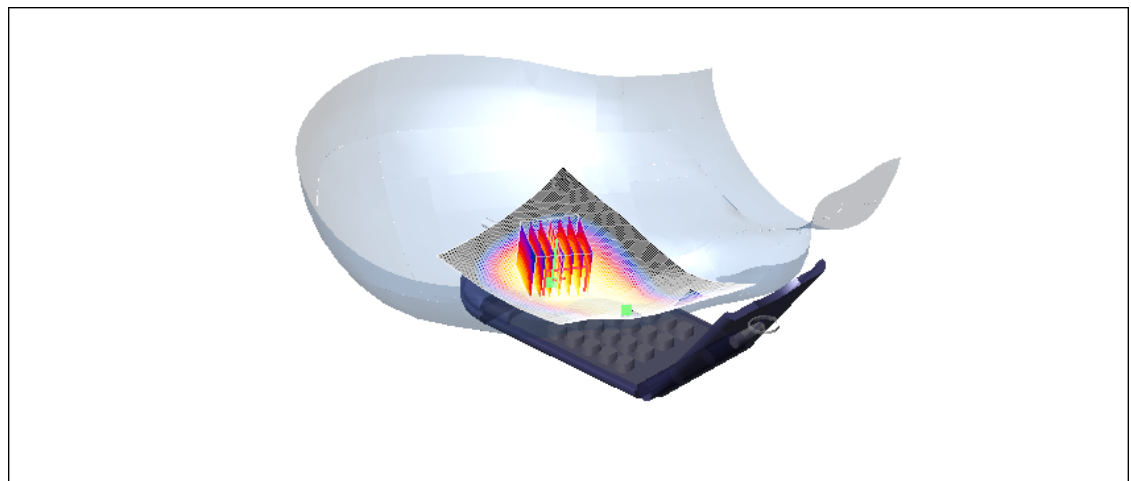
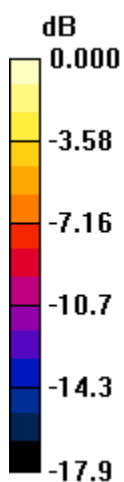
**PG\_3700/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $12.9 \text{ V/m}$ ; Power Drift =  $-0.034 \text{ dB}$

Peak SAR (extrapolated) =  $1.48 \text{ W/kg}$

**SAR(1 g) =  $1.15 \text{ mW/g}$ ; SAR(10 g) =  $0.763 \text{ mW/g}$**

Maximum value of SAR (measured) =  $1.24 \text{ mW/g}$



0 dB =  $1.24 \text{ mW/g}$

Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

## 1900\_right\_ch661\_cheek

**DUT: Triple-Band GSM 900 (E-GSM) / DCS 1800 / PCS1900 (with WAP & GPRS); Type: PG\_3700; Serial: ---**

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: Head 1900 MHz Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.4 \text{ mho/m}$ ;  $\epsilon_r = 39.9$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1711; ConvF(4.84, 4.84, 4.84); Calibrated: 11/21/2005
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 11/23/2005
- Phantom: SAM 12; Type: TP-1217; Serial: QD000P40CA
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

**PG\_3700/Area Scan (91x141x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (interpolated) =  $1.09 \text{ mW/g}$

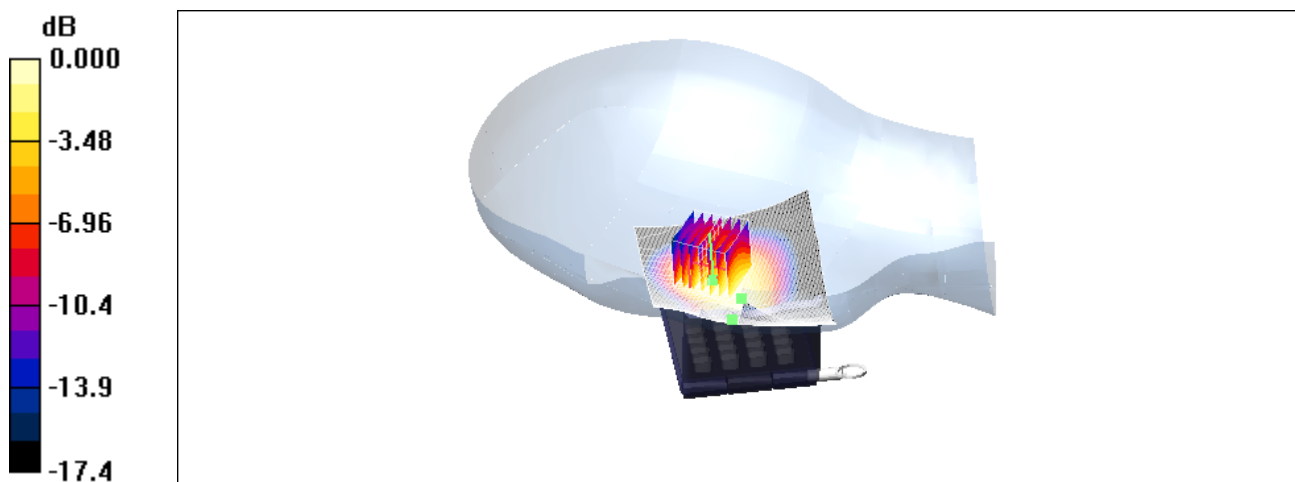
**PG\_3700/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $12.2 \text{ V/m}$ ; Power Drift =  $-0.009 \text{ dB}$

Peak SAR (extrapolated) =  $1.36 \text{ W/kg}$

**SAR(1 g) =  $1.03 \text{ mW/g}$ ; SAR(10 g) =  $0.669 \text{ mW/g}$**

Maximum value of SAR (measured) =  $1.11 \text{ mW/g}$



0 dB =  $1.11 \text{ mW/g}$

Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

## 1900\_right\_ch661\_tilted

**DUT: Triple-Band GSM 900 (E-GSM) / DCS 1800 / PCS1900 (with WAP & GPRS); Type: PG\_3700; Serial: ---**

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: Head 1900 MHz Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.4 \text{ mho/m}$ ;  $\epsilon_r = 39.9$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1711; ConvF(4.84, 4.84, 4.84); Calibrated: 11/21/2005
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 11/23/2005
- Phantom: SAM 12; Type: TP-1217; Serial: QD000P40CA
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

**PG\_3700/Area Scan (91x141x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (interpolated) =  $0.704 \text{ mW/g}$

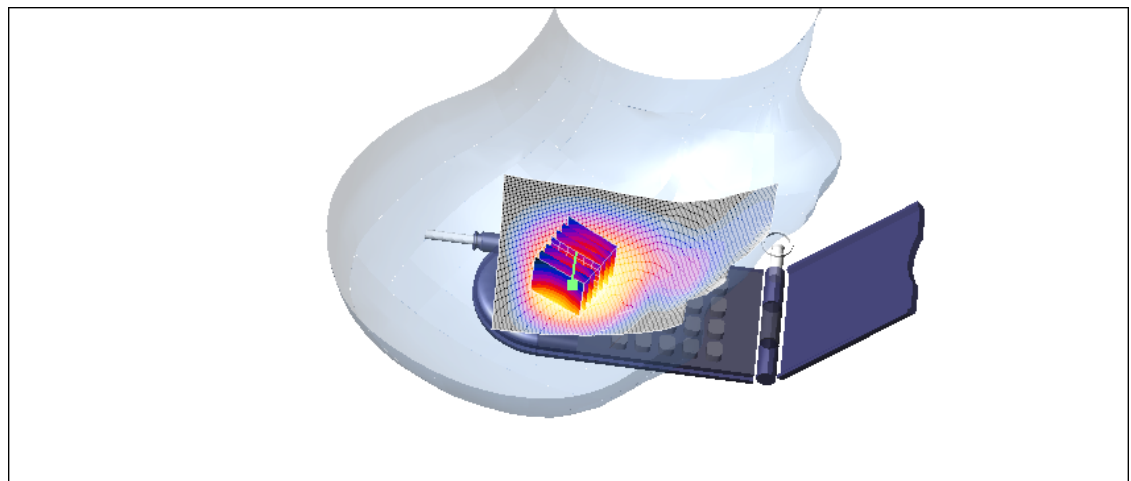
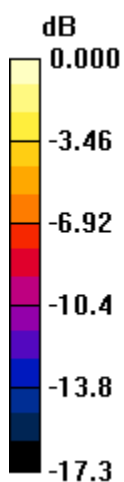
**PG\_3700/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $13.4 \text{ V/m}$ ; Power Drift =  $-0.086 \text{ dB}$

Peak SAR (extrapolated) =  $0.871 \text{ W/kg}$

**SAR(1 g) =  $0.636 \text{ mW/g}$ ; SAR(10 g) =  $0.397 \text{ mW/g}$**

Maximum value of SAR (measured) =  $0.697 \text{ mW/g}$



0 dB =  $0.697 \text{ mW/g}$

Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

## 1900\_right\_ch810\_cheek

**DUT: Triple-Band GSM 900 (E-GSM) / DCS 1800 / PCS1900 (with WAP & GPRS); Type: PG\_3700; Serial: ---**

Communication System: GSM 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium: Head 1900 MHz Medium parameters used:  $f = 1909.8 \text{ MHz}$ ;  $\sigma = 1.43 \text{ mho/m}$ ;  $\epsilon_r = 39.8$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1711; ConvF(4.84, 4.84, 4.84); Calibrated: 11/21/2005
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 11/23/2005
- Phantom: SAM 12; Type: TP-1217; Serial: QD000P40CA
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

**PG\_3700/Area Scan (91x141x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (interpolated) =  $0.865 \text{ mW/g}$

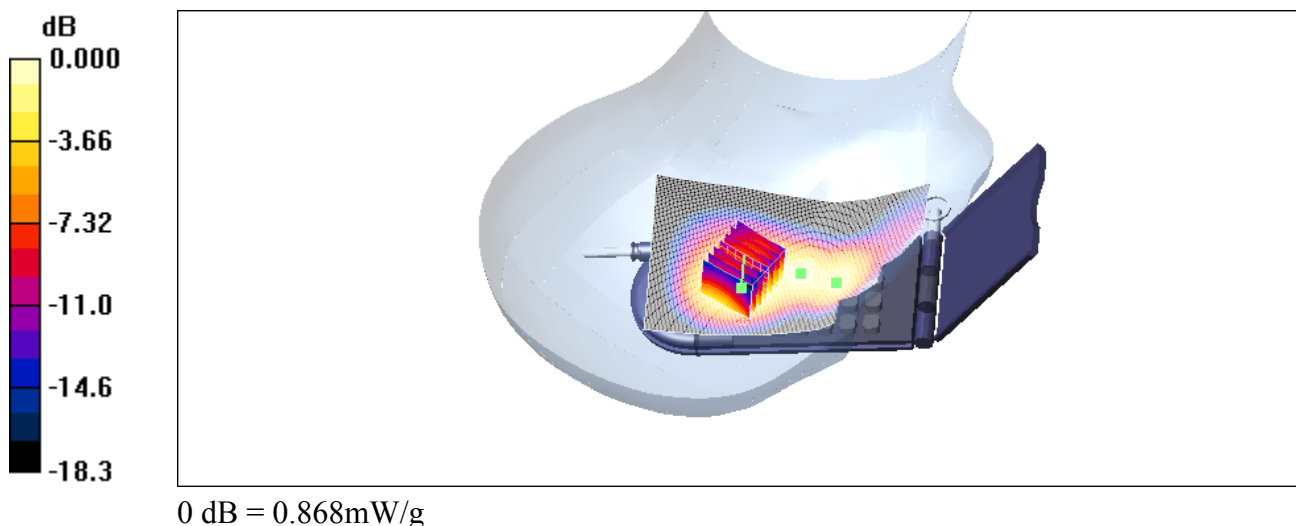
**PG\_3700/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $11.1 \text{ V/m}$ ; Power Drift =  $-0.003 \text{ dB}$

Peak SAR (extrapolated) =  $1.07 \text{ W/kg}$

**SAR(1 g) =  $0.801 \text{ mW/g}$ ; SAR(10 g) =  $0.518 \text{ mW/g}$**

Maximum value of SAR (measured) =  $0.868 \text{ mW/g}$



Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

## 1900\_left\_ch512\_cheek

**DUT: Triple-Band GSM 900 (E-GSM) / DCS 1800 / PCS1900 (with WAP & GPRS); Type: PG\_3700; Serial: ---**

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

Medium: Head 1900 MHz Medium parameters used:  $f = 1850.2 \text{ MHz}$ ;  $\sigma = 1.4 \text{ mho/m}$ ;  $\epsilon = 39.9$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1711; ConvF(4.84, 4.84, 4.84); Calibrated: 11/21/2005
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 11/23/2005
- Phantom: SAM 12; Type: TP-1217; Serial: QD000P40CA
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

**PG\_3700/Area Scan (91x141x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (interpolated) =  $1.13 \text{ mW/g}$

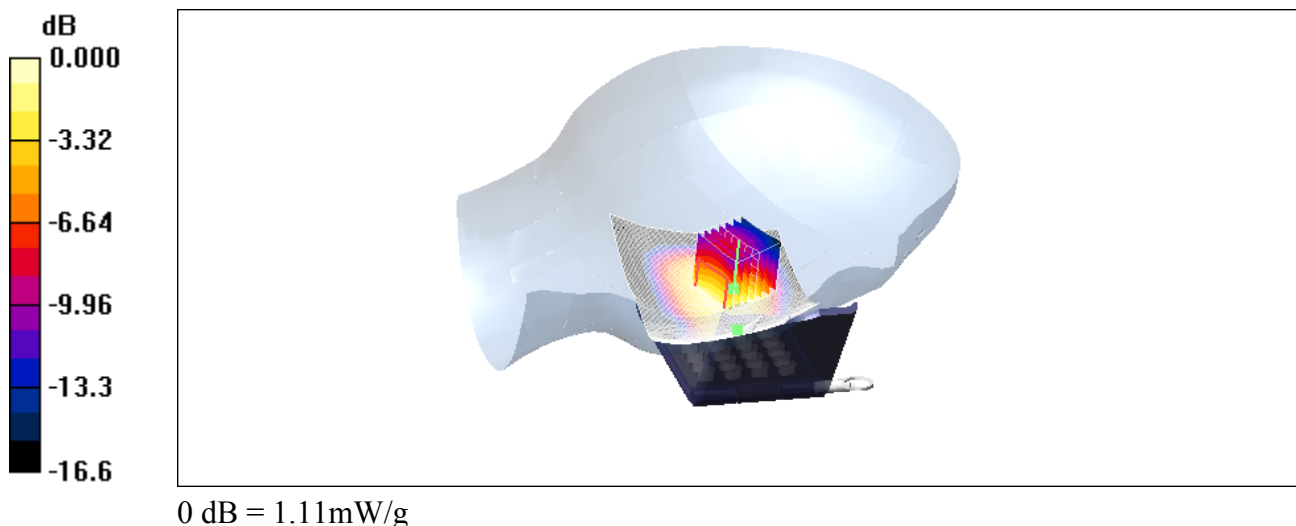
**PG\_3700/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $14.4 \text{ V/m}$ ; Power Drift =  $-0.070 \text{ dB}$

Peak SAR (extrapolated) =  $1.36 \text{ W/kg}$

**SAR(1 g) =  $1.02 \text{ mW/g}$ ; SAR(10 g) =  $0.660 \text{ mW/g}$**

Maximum value of SAR (measured) =  $1.11 \text{ mW/g}$



Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

## 1900\_left\_ch661\_cheek

**DUT: Triple-Band GSM 900 (E-GSM) / DCS 1800 / PCS1900 (with WAP & GPRS); Type: PG\_3700; Serial: ---**

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: Head 1900 MHz Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.4 \text{ mho/m}$ ;  $\epsilon_r = 39.9$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1711; ConvF(4.84, 4.84, 4.84); Calibrated: 11/21/2005
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 11/23/2005
- Phantom: SAM 12; Type: TP-1217; Serial: QD000P40CA
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

**PG\_3700/Area Scan (91x141x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (interpolated) =  $0.993 \text{ mW/g}$

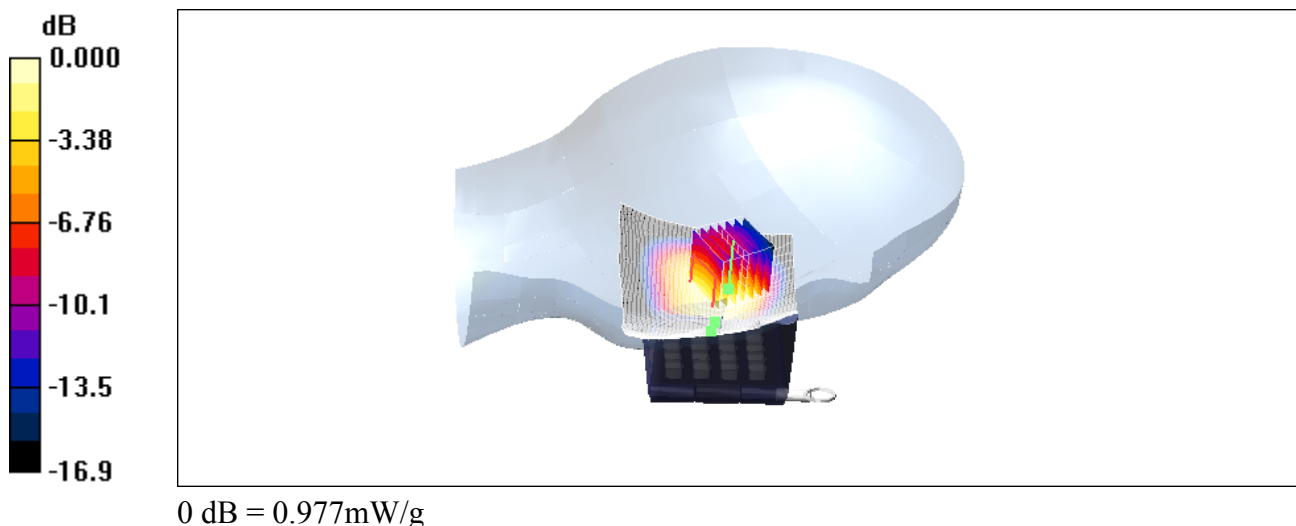
**PG\_3700/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $14.0 \text{ V/m}$ ; Power Drift =  $-0.056 \text{ dB}$

Peak SAR (extrapolated) =  $1.22 \text{ W/kg}$

**SAR(1 g) =  $0.902 \text{ mW/g}$ ; SAR(10 g) =  $0.580 \text{ mW/g}$**

Maximum value of SAR (measured) =  $0.977 \text{ mW/g}$



Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

## 1900\_left\_ch661\_tilted

**DUT: Triple-Band GSM 900 (E-GSM) / DCS 1800 / PCS1900 (with WAP & GPRS); Type: PG\_3700; Serial: ---**

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: Head 1900 MHz Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.4 \text{ mho/m}$ ;  $\epsilon_r = 39.9$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1711; ConvF(4.84, 4.84, 4.84); Calibrated: 11/21/2005
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 11/23/2005
- Phantom: SAM 12; Type: TP-1217; Serial: QD000P40CA
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

**PG\_3700/Area Scan (91x141x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (interpolated) =  $0.605 \text{ mW/g}$

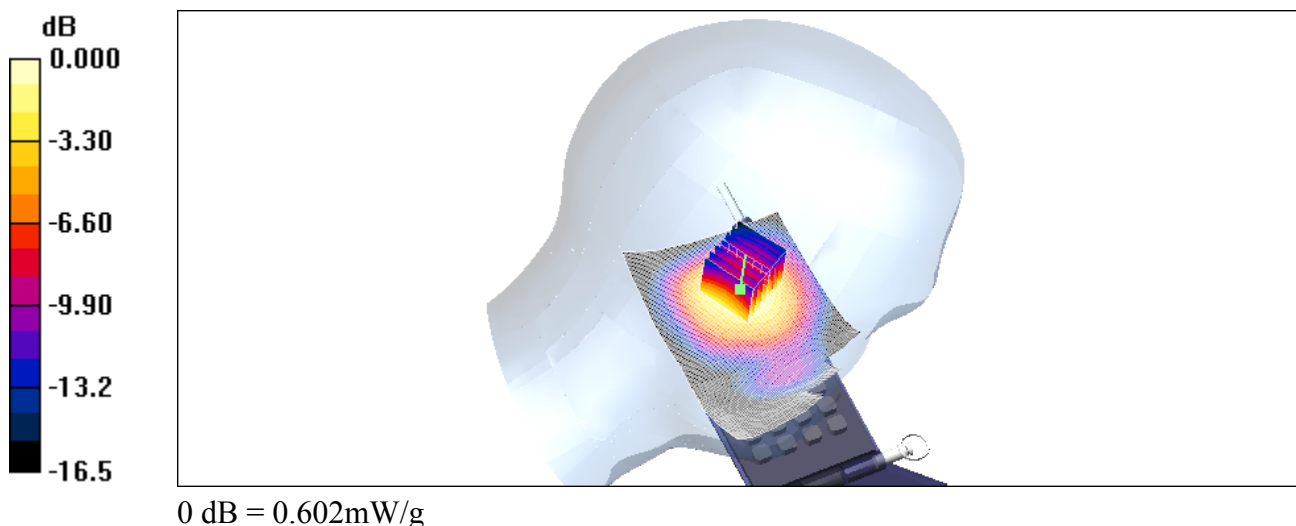
**PG\_3700/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $16.8 \text{ V/m}$ ; Power Drift =  $-0.084 \text{ dB}$

Peak SAR (extrapolated) =  $0.799 \text{ W/kg}$

**SAR(1 g) =  $0.552 \text{ mW/g}$ ; SAR(10 g) =  $0.342 \text{ mW/g}$**

Maximum value of SAR (measured) =  $0.602 \text{ mW/g}$



Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

## 1900\_left\_ch810\_cheek

**DUT: Triple-Band GSM 900 (E-GSM) / DCS 1800 / PCS1900 (with WAP & GPRS); Type: PG\_3700; Serial: ---**

Communication System: GSM 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium: Head 1900 MHz Medium parameters used:  $f = 1909.8 \text{ MHz}$ ;  $\sigma = 1.43 \text{ mho/m}$ ;  $\epsilon_r = 39.8$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1711; ConvF(4.84, 4.84, 4.84); Calibrated: 11/21/2005
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 11/23/2005
- Phantom: SAM 12; Type: TP-1217; Serial: QD000P40CA
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

**PG\_3700/Area Scan (91x141x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (interpolated) =  $0.803 \text{ mW/g}$

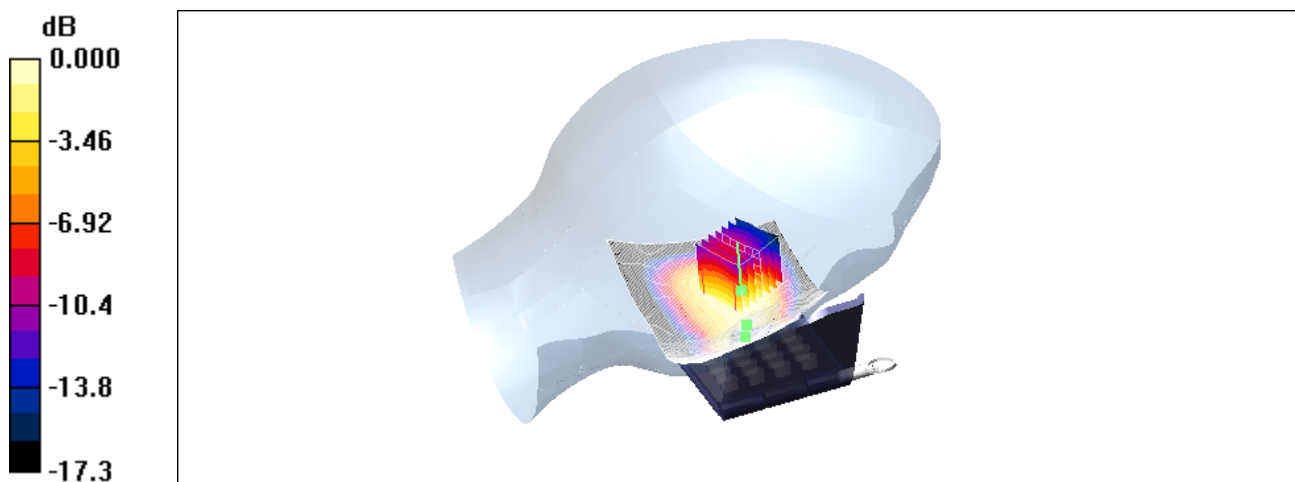
**PG\_3700/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $12.5 \text{ V/m}$ ; Power Drift =  $-0.031 \text{ dB}$

Peak SAR (extrapolated) =  $0.981 \text{ W/kg}$

**SAR(1 g) =  $0.715 \text{ mW/g}$ ; SAR(10 g) =  $0.455 \text{ mW/g}$**

Maximum value of SAR (measured) =  $0.780 \text{ mW/g}$



0 dB =  $0.780 \text{ mW/g}$

Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

### 1900\_flat\_back\_ch512\_dist5

**DUT: Triple-Band GSM 850 (E-GSM)/DCS 1800 /PCS1900 (with WAP & GPRS); Type: ---; Serial: PG-3700**

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

Medium: Muscle 1900 MHz Medium parameters used:  $f = 1850.2 \text{ MHz}$ ;  $\sigma = 1.51 \text{ mho/m}$ ;  $\epsilon_r = 52$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1711; ConvF(4.31, 4.31, 4.31); Calibrated: 11/21/2005
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 11/23/2005
- Phantom: SAM 12; Type: TP-1217; Serial: QD000P40CA
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

**PG-3700/Area Scan (91x141x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 1.41 mW/g

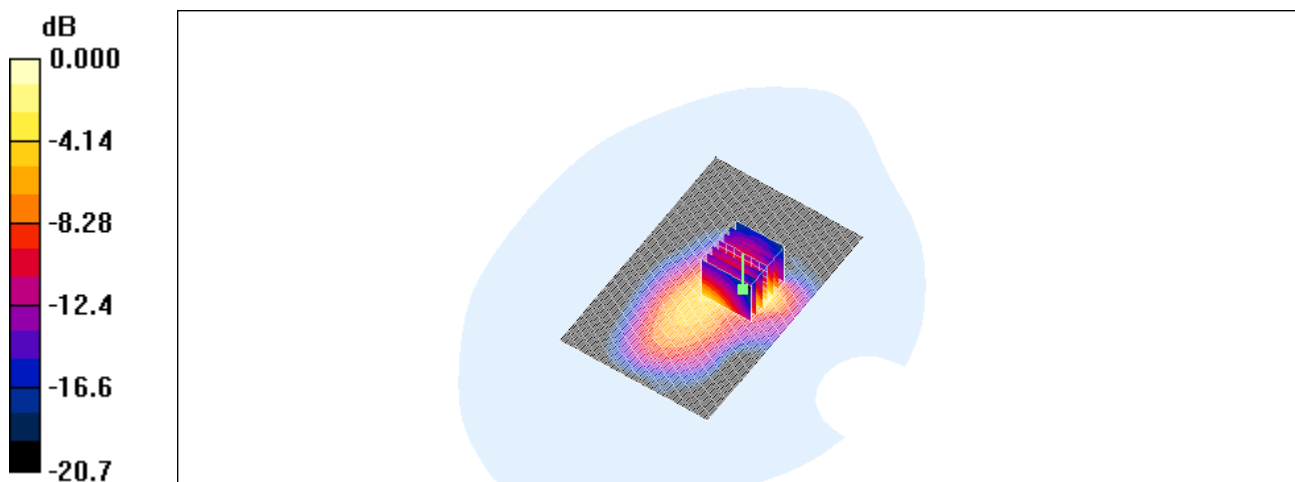
**PG-3700/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 20.0 V/m; Power Drift = -0.011 dB

Peak SAR (extrapolated) = 2.12 W/kg

**SAR(1 g) = 1.15 mW/g; SAR(10 g) = 0.544 mW/g**

Maximum value of SAR (measured) = 1.37 mW/g



0 dB = 1.37mW/g

Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

### 1900\_flat\_front\_ch661\_dist5

**DUT: Triple-Band GSM 850 (E-GSM)/DCS 1800 /PCS1900 (with WAP & GPRS); Type: ---; Serial: PG-3700**

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: Muscle 1900 MHz Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.55 \text{ mho/m}$ ;  $\epsilon_r = 51.9$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1711; ConvF(4.31, 4.31, 4.31); Calibrated: 11/21/2005
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 11/23/2005
- Phantom: SAM 12; Type: TP-1217; Serial: QD000P40CA
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

**PG-3700/Area Scan (91x141x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.552 mW/g

**PG-3700/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 19.8 V/m; Power Drift = 0.028 dB

Peak SAR (extrapolated) = 0.727 W/kg

**SAR(1 g) = 0.493 mW/g; SAR(10 g) = 0.306 mW/g**

Maximum value of SAR (measured) = 0.540 mW/g

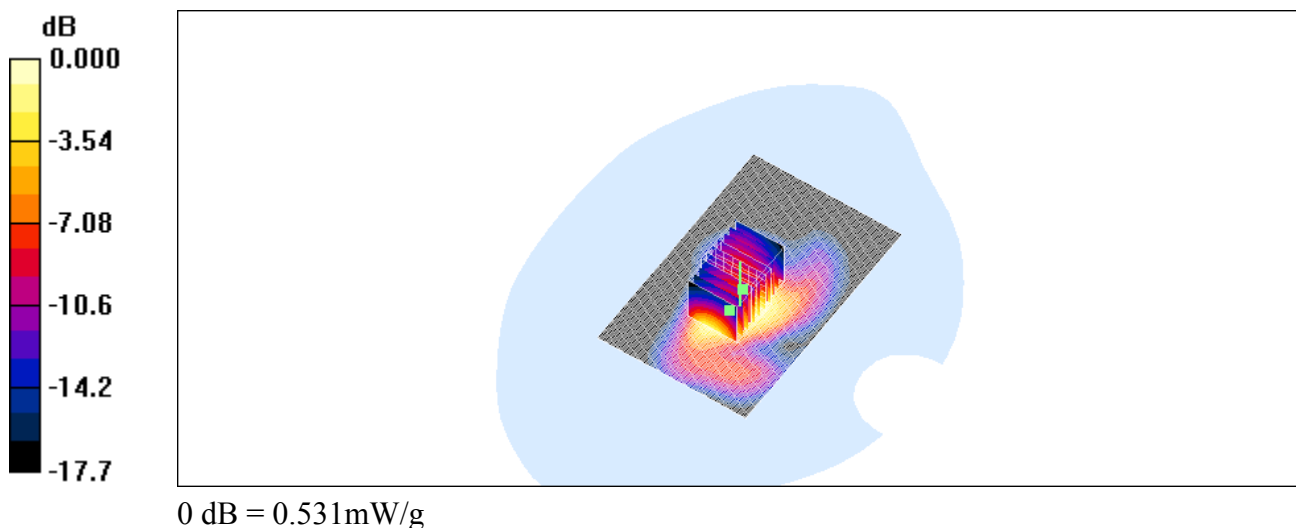
**PG-3700/Zoom Scan (7x7x7)/Cube 1:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 19.8 V/m; Power Drift = 0.028 dB

Peak SAR (extrapolated) = 0.714 W/kg

**SAR(1 g) = 0.493 mW/g; SAR(10 g) = 0.304 mW/g**

Maximum value of SAR (measured) = 0.531 mW/g



Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

### 1900\_flat\_back\_ch661\_dist5

**DUT: Triple-Band GSM 850 (E-GSM)/DCS 1800 /PCS1900 (with WAP & GPRS); Type: ---;  
Serial: PG-3700**

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: Muscle 1900 MHz Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.55 \text{ mho/m}$ ;  $\epsilon_r = 51.9$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1711; ConvF(4.31, 4.31, 4.31); Calibrated: 11/21/2005
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 11/23/2005
- Phantom: SAM 12; Type: TP-1217; Serial: QD000P40CA
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

**PG-3700/Area Scan (91x141x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (interpolated) =  $1.23 \text{ mW/g}$

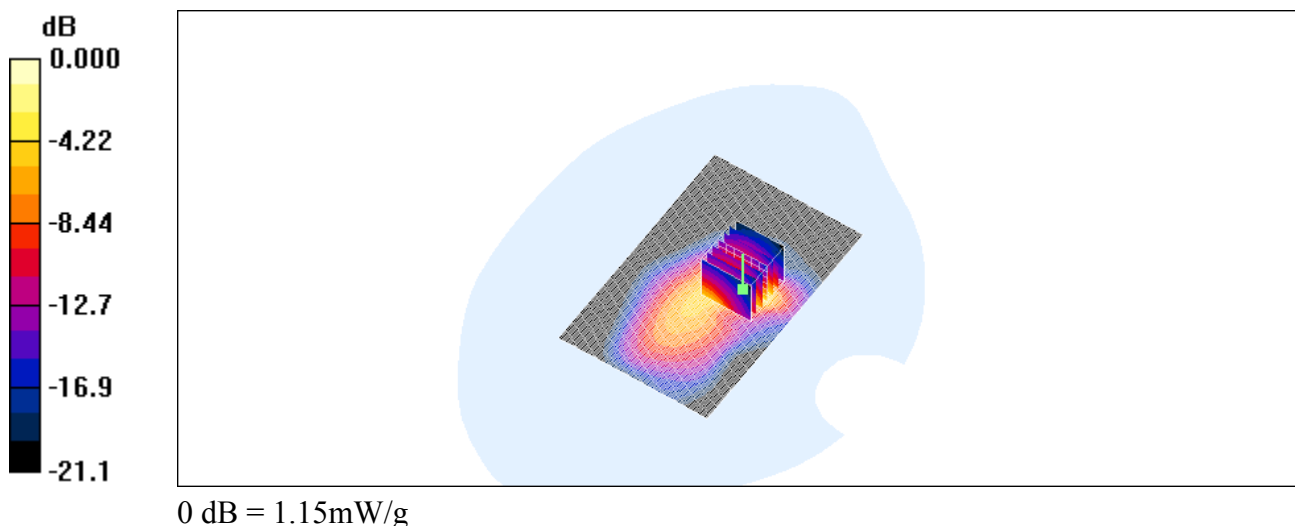
**PG-3700/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $16.7 \text{ V/m}$ ; Power Drift =  $-0.041 \text{ dB}$

Peak SAR (extrapolated) =  $1.83 \text{ W/kg}$

**SAR(1 g) =  $0.956 \text{ mW/g}$ ; SAR(10 g) =  $0.429 \text{ mW/g}$**

Maximum value of SAR (measured) =  $1.15 \text{ mW/g}$



Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

### 1900\_flat\_back\_ch810\_dist5

**DUT: Triple-Band GSM 850 (E-GSM)/DCS 1800 /PCS1900 (with WAP & GPRS); Type: ---;  
Serial: PG-3700**

Communication System: GSM 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium: Muscle 1900 MHz Medium parameters used:  $f = 1909.8$  MHz;  $\sigma = 1.59$  mho/m;  $\epsilon_r = 51.9$ ;

$\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1711; ConvF(4.31, 4.31, 4.31); Calibrated: 11/21/2005
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 11/23/2005
- Phantom: SAM 12; Type: TP-1217; Serial: QD000P40CA
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

**PG-3700/Area Scan (91x141x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 1.08 mW/g

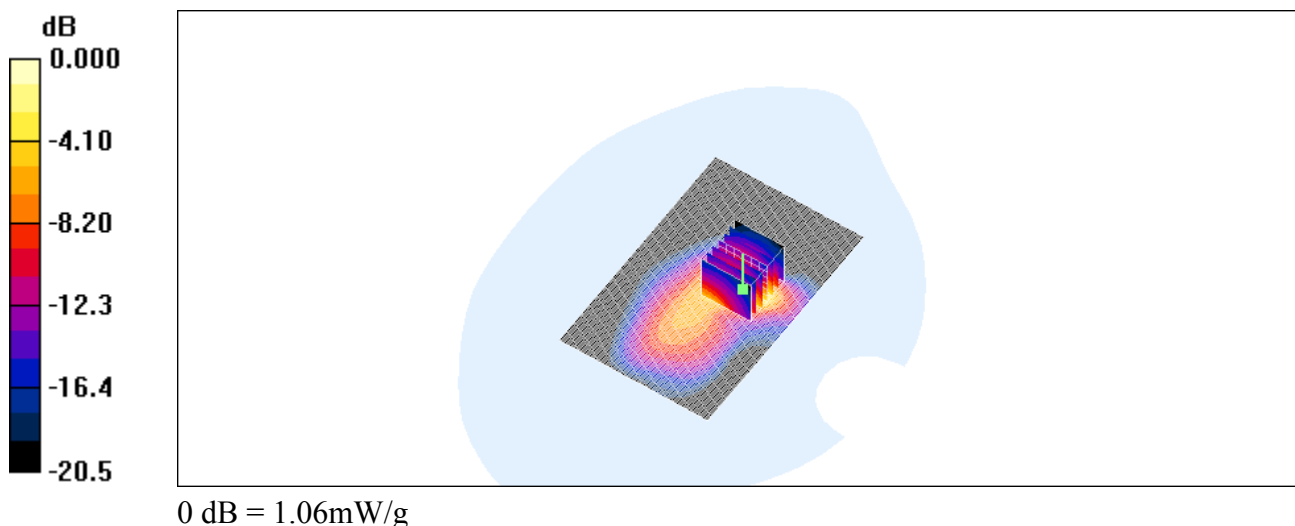
**PG-3700/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.5 V/m; Power Drift = 0.019 dB

Peak SAR (extrapolated) = 1.75 W/kg

**SAR(1 g) = 0.887 mW/g; SAR(10 g) = 0.394 mW/g**

Maximum value of SAR (measured) = 1.06 mW/g



Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

### 1900\_flat\_back\_ch512\_dist5

**DUT: Triple-Band GSM 850 (E-GSM)/DCS 1800 /PCS1900 (with WAP & GPRS); Type: ---; Serial: PG-3700**

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

Medium: Muscle 1900 MHz Medium parameters used:  $f = 1850.2 \text{ MHz}$ ;  $\sigma = 1.51 \text{ mho/m}$ ;  $\epsilon_r = 52$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1711; ConvF(4.31, 4.31, 4.31); Calibrated: 11/21/2005
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 11/23/2005
- Phantom: SAM 12; Type: TP-1217; Serial: QD000P40CA
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

**PG-3700/Area Scan (91x141x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (interpolated) =  $1.41 \text{ mW/g}$

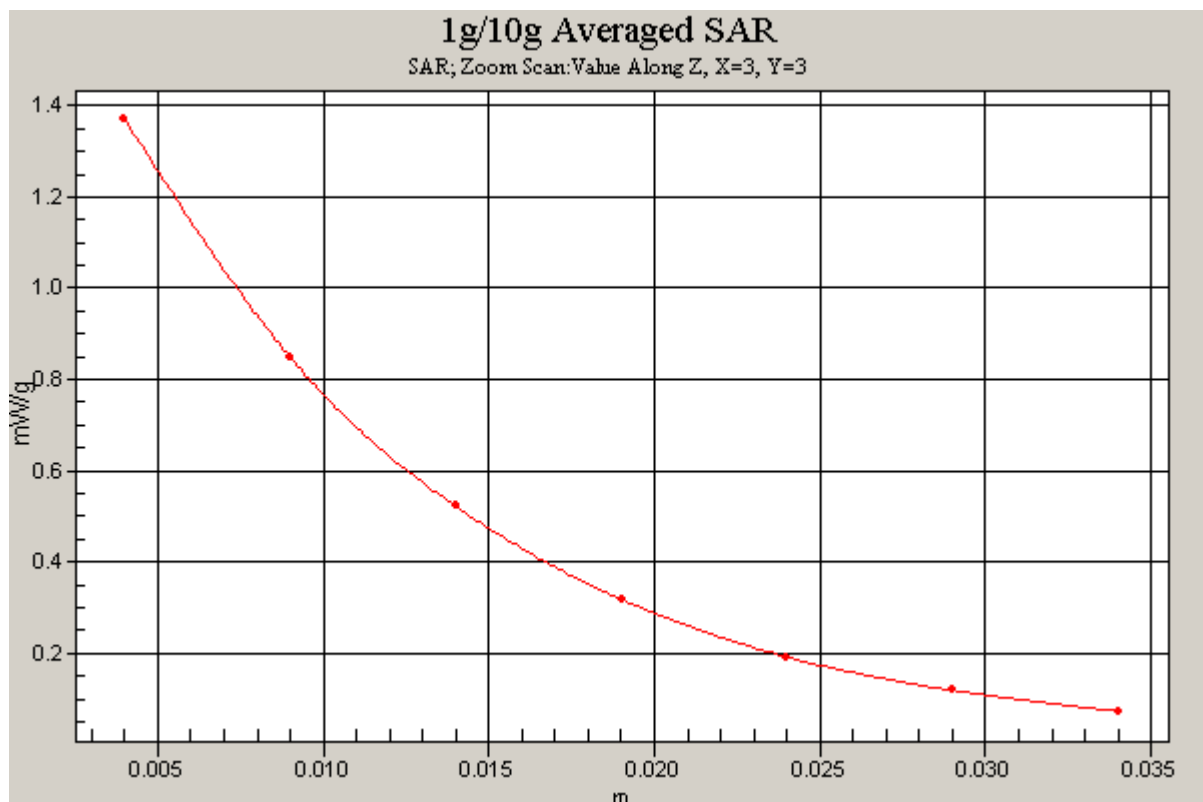
**PG-3700/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $20.0 \text{ V/m}$ ; Power Drift =  $-0.011 \text{ dB}$

Peak SAR (extrapolated) =  $2.12 \text{ W/kg}$

**SAR(1 g) =  $1.15 \text{ mW/g}$ ; SAR(10 g) =  $0.544 \text{ mW/g}$**

Maximum value of SAR (measured) =  $1.37 \text{ mW/g}$



## Appendix C

### Pictures

## Appendix

### C. Pictures



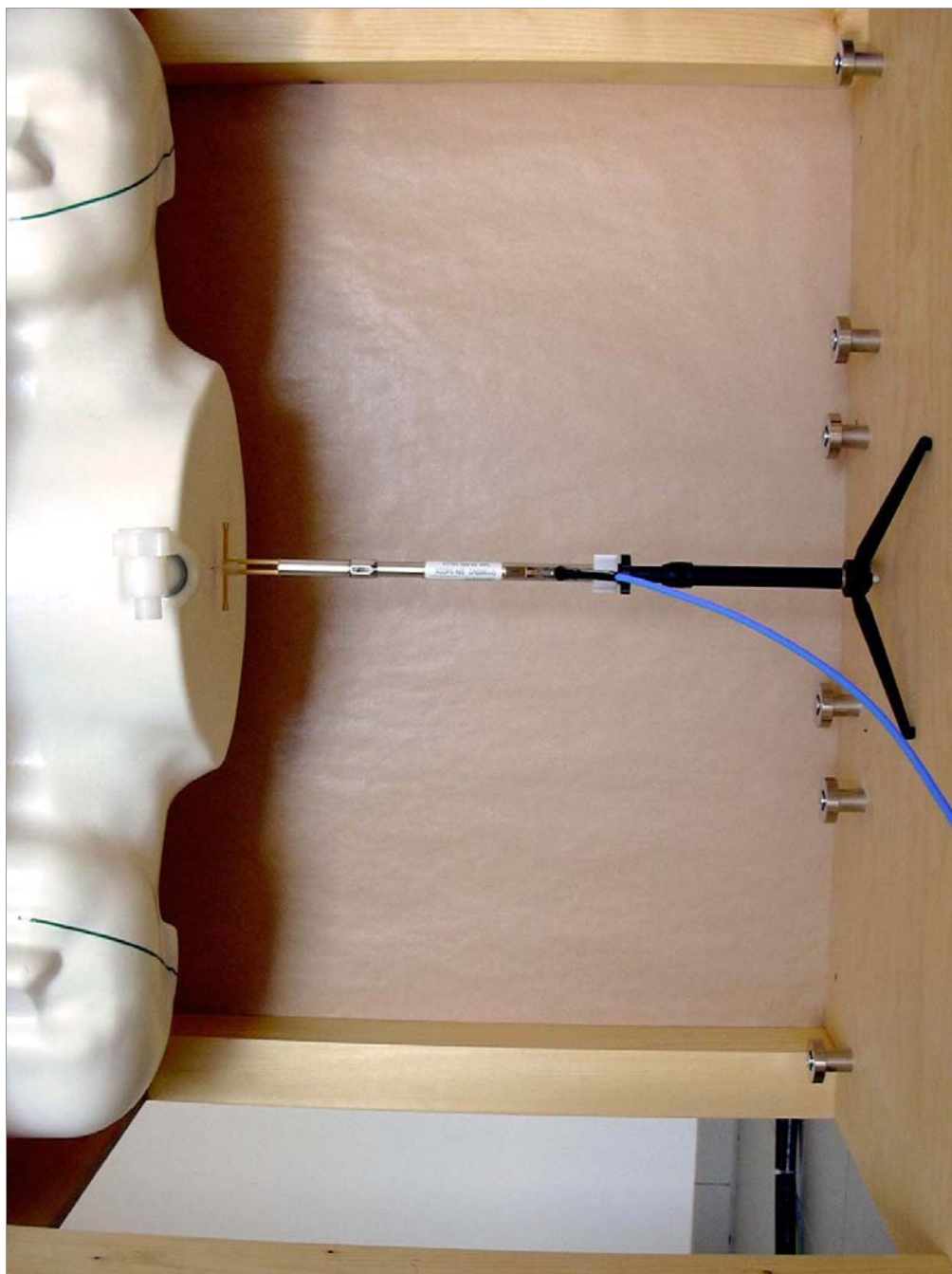








Valid 1900 MHz



Liquid depth 1900 MHz

