

Appendix B

Measurement Plots

Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

Dipol Valid.900(h)_250mW_18.02.2004

DUT: Dipole 900 MHz; Type: D900V2; Serial: 164

Communication System: CW; Frequency: 900 MHz; Duty Cycle: 1:1

Medium: Head 900 MHz Medium parameters used (interpolated): $f = 900$ MHz; $\sigma = 0.958$ mho/m; ϵ_r
 $= 41.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1711; ConvF(6.2, 6.2, 6.2); Calibrated: 12/16/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 1/12/2004
- Phantom: SAM 12; Type: TP-1217; Serial: QD000P40CA
- Measurement SW: DASY4, V4.2 Build 12; Postprocessing SW: SEMCAD, V1.8 Build 93

Dipol 900 (250mW)/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 60.7 V/m

Power Drift = -0.01 dB

Maximum value of SAR = 2.92 mW/g

Dipol 900 (250mW)/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

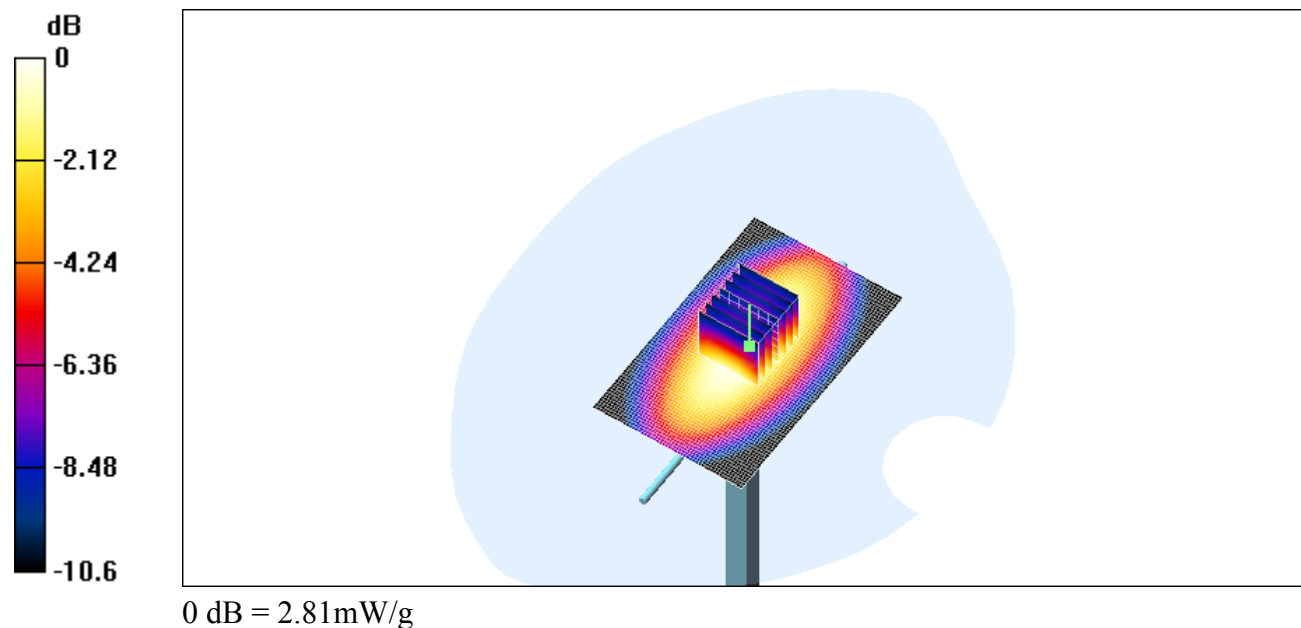
Peak SAR (extrapolated) = 4.2 W/kg

SAR(1 g) = 2.61 mW/g; SAR(10 g) = 1.71 mW/g

Reference Value = 60.7 V/m

Power Drift = -0.01 dB

Maximum value of SAR = 2.81 mW/g



Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

Dipol Valid. 900 (m)_19.02.2004

DUT: Dipole 900 MHz; Type: D900V2; Serial: 164

Communication System: CW; Frequency: 900 MHz; Duty Cycle: 1:1

Medium: Muscle 900 MHz Medium parameters used: $f = 900 \text{ MHz}$; $\sigma = 1.04 \text{ mho/m}$; $\epsilon_r = 54.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1711; ConvF(6, 6, 6); Calibrated: 12/16/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 1/12/2004
- Phantom: SAM 12; Type: TP-1217; Serial: QD000P40CA
- Measurement SW: DASY4, V4.2 Build 12; Postprocessing SW: SEMCAD, V1.8 Build 93

Dipol 900 (250mW)/Area Scan (101x161x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Reference Value = 56.3 V/m

Power Drift = -0.001 dB

Maximum value of SAR = 3.08 mW/g

Dipol 900 (250mW)/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

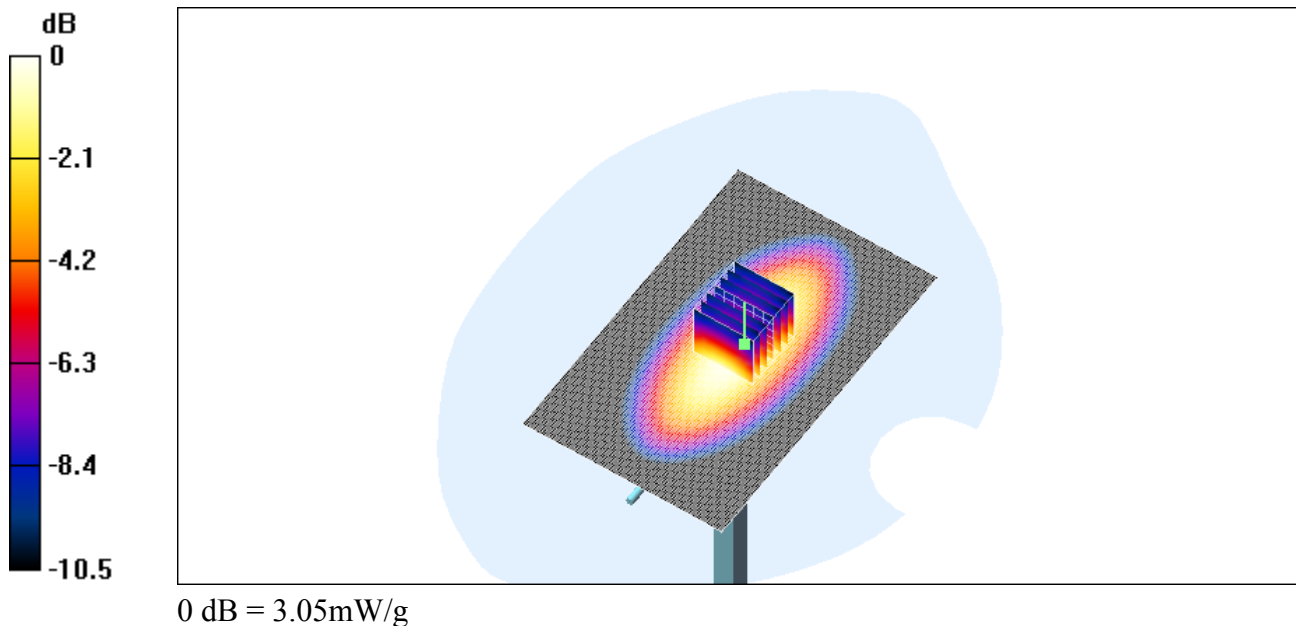
Peak SAR (extrapolated) = 4.03 W/kg

SAR(1 g) = 2.79 mW/g; SAR(10 g) = 1.83 mW/g

Reference Value = 56.3 V/m

Power Drift = -0.001 dB

Maximum value of SAR = 3.05 mW/g



Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

Dipol Valid.1900 (h)_19.02.2004

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 (interpolated): $f = 1900$ MHz; $\sigma = 1.42$ mho/m;
 $\epsilon_r = 39.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1711; ConvF(5.2, 5.2, 5.2); Calibrated: 12/16/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 1/12/2004
- Phantom: SAM 12; Type: TP-1217; Serial: QD000P40CA
- Measurement SW: DASY4, V4.2 Build 12; Postprocessing SW: SEMCAD, V1.8 Build 93

Dipol 1900 (250mW)/Area Scan (81x81x1): Measurement grid: dx=10mm, dy=10mm

Reference Value = 91.1 V/m

Power Drift = -0.001 dB

Maximum value of SAR = 11.5 mW/g

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

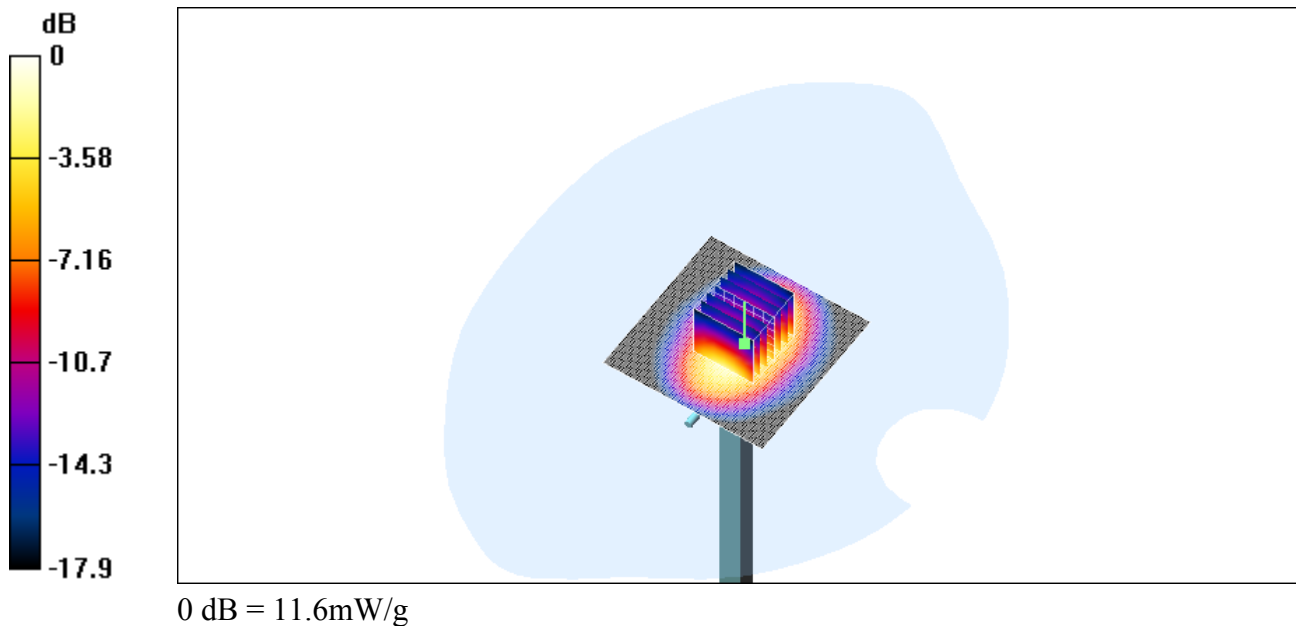
Peak SAR (extrapolated) = 17.9 W/kg

SAR(1 g) = 10.1 mW/g; SAR(10 g) = 5.24 mW/g

Reference Value = 91.1 V/m

Power Drift = -0.001 dB

Maximum value of SAR = 11.6 mW/g



Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

Dipol Valid.1900 (m)_20.02.2004

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 (interpolated): $f = 1900 \text{ MHz}$; $\sigma = 1.57 \text{ mho/m}$; $\epsilon_r = 51.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1711; ConvF(5, 5, 5); Calibrated: 11/29/2002
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 9/11/2002
- Phantom: SAM 12; Type: TP-1217; Serial: QD000P40CA
- Measurement SW: DASY4, V4.2 Build 12; Postprocessing SW: SEMCAD, V1.8 Build 93

Dipol 1900 (250mW)/Area Scan (81x81x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Reference Value = 89.8 V/m

Power Drift = -0.01 dB

Maximum value of SAR = 13 mW/g

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

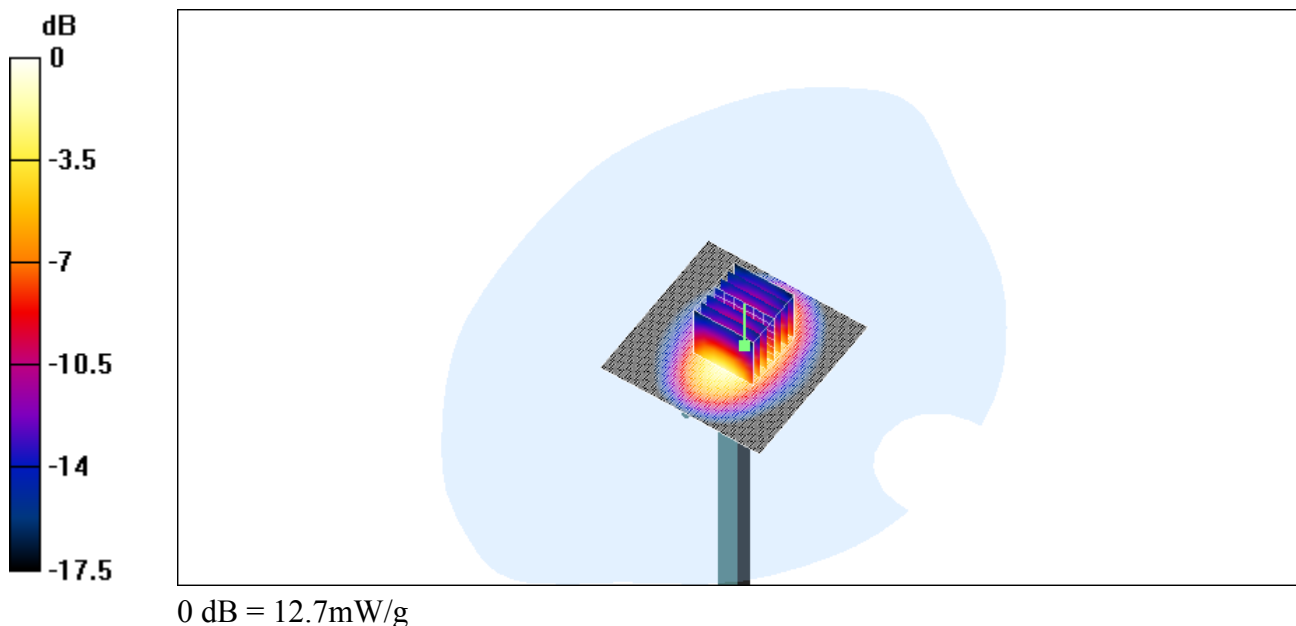
Peak SAR (extrapolated) = 18.1 W/kg

SAR(1 g) = 11.3 mW/g; SAR(10 g) = 5.92 mW/g

Reference Value = 89.8 V/m

Power Drift = -0.01 dB

Maximum value of SAR = 12.7 mW/g



Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

850_right_ch128_cheek

DUT: E-GSM850/GSM1900 Dual Band GPRS Terminal Equipment; Type: -; Serial: INNO 98

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3

Medium: Head 850MHz Medium parameters used (interpolated): $f = 824.2$ MHz; $\sigma = 0.9$ mho/m; $\epsilon_r = 41.6$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1711; ConvF(6.2, 6.2, 6.2); Calibrated: 12/16/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 1/12/2004
- Phantom: SAM 12; Type: TP-1217; Serial: QD000P40CA
- Measurement SW: DASY4, V4.2 Build 12; Postprocessing SW: SEMCAD, V1.8 Build 93

INNO98/Area Scan (81x141x1): Measurement grid: dx=10mm, dy=10mm

Reference Value = 7.76 V/m

Power Drift = -0.0 dB

Maximum value of SAR = 0.550 mW/g

INNO98/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

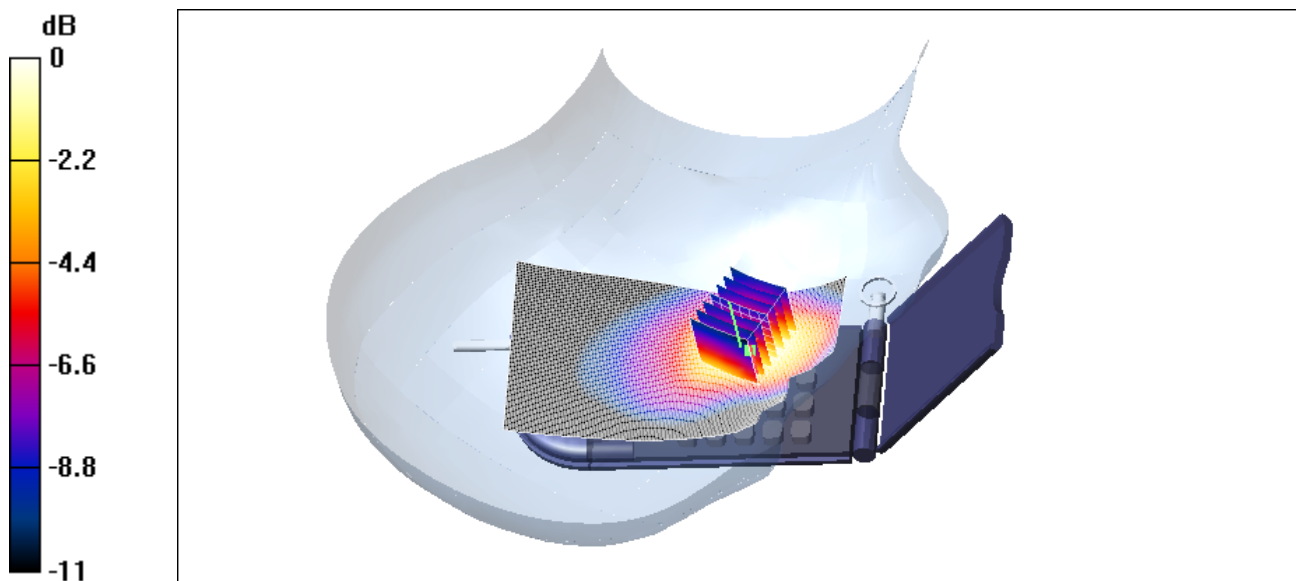
Peak SAR (extrapolated) = 0.838 W/kg

SAR(1 g) = 0.513 mW/g; SAR(10 g) = 0.328 mW/g

Reference Value = 7.76 V/m

Power Drift = -0.0 dB

Maximum value of SAR = 0.550 mW/g



0 dB = 0.550mW/g

Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

850_right_ch189_cheek

DUT: E-GSM850/GSM1900 Dual Band GPRS Terminal Equipment; Type: -; Serial: INNO 98

Communication System: GSM 850; Frequency: 836.4 MHz; Duty Cycle: 1:8.3

Medium: Head 850MHz Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.905$ mho/m;

$\epsilon_r = 41.5$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1711; ConvF(6.2, 6.2, 6.2); Calibrated: 12/16/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 1/12/2004
- Phantom: SAM 12; Type: TP-1217; Serial: QD000P40CA
- Measurement SW: DASY4, V4.2 Build 12; Postprocessing SW: SEMCAD, V1.8 Build 93

INNO98/Area Scan (81x141x1): Measurement grid: dx=10mm, dy=10mm

Reference Value = 7.7 V/m

Power Drift = -0.01 dB

Maximum value of SAR = 0.535 mW/g

INNO98/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

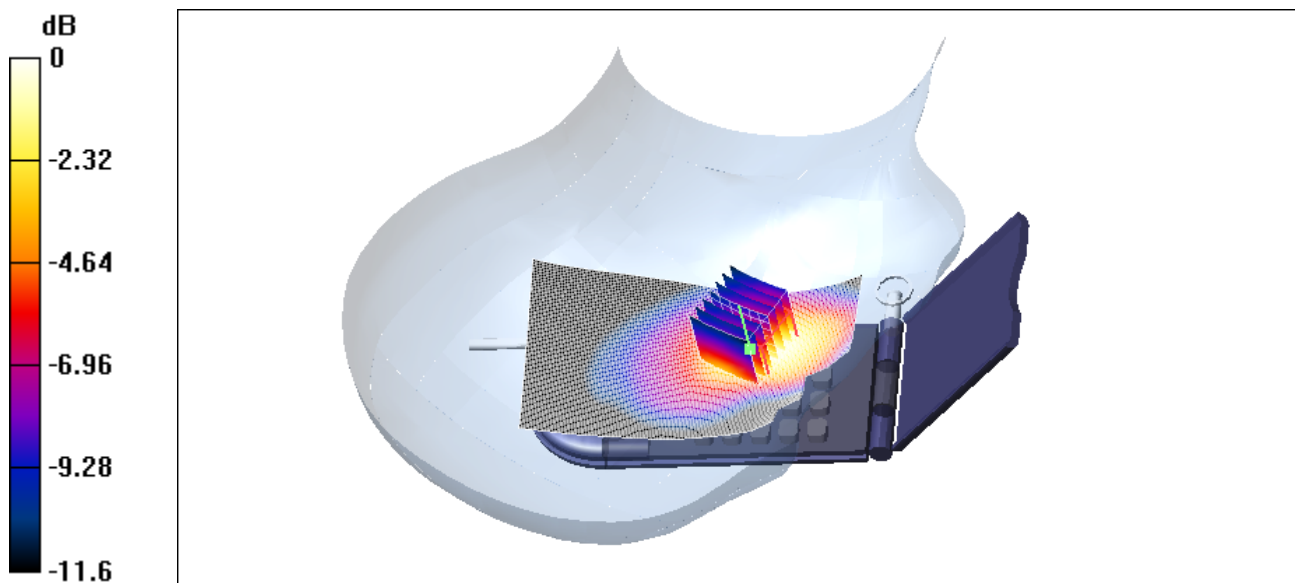
Peak SAR (extrapolated) = 0.839 W/kg

SAR(1 g) = 0.490 mW/g; SAR(10 g) = 0.307 mW/g

Reference Value = 7.7 V/m

Power Drift = -0.01 dB

Maximum value of SAR = 0.552 mW/g



0 dB = 0.552mW/g

Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

850_right_ch189_tilted

DUT: E-GSM850/GSM1900 Dual Band GPRS Terminal Equipment; Type: -; Serial: INNO 98

Communication System: GSM 850; Frequency: 836.4 MHz; Duty Cycle: 1:8.3

Medium: Head 850MHz Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.905$ mho/m;

$\epsilon_r = 41.5$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1711; ConvF(6.2, 6.2, 6.2); Calibrated: 12/16/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 1/12/2004
- Phantom: SAM 12; Type: TP-1217; Serial: QD000P40CA
- Measurement SW: DASY4, V4.2 Build 12; Postprocessing SW: SEMCAD, V1.8 Build 93

INNO98/Area Scan (81x141x1): Measurement grid: dx=10mm, dy=10mm

Reference Value = 9.39 V/m

Power Drift = 0.0 dB

Maximum value of SAR = 0.197 mW/g

INNO98/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

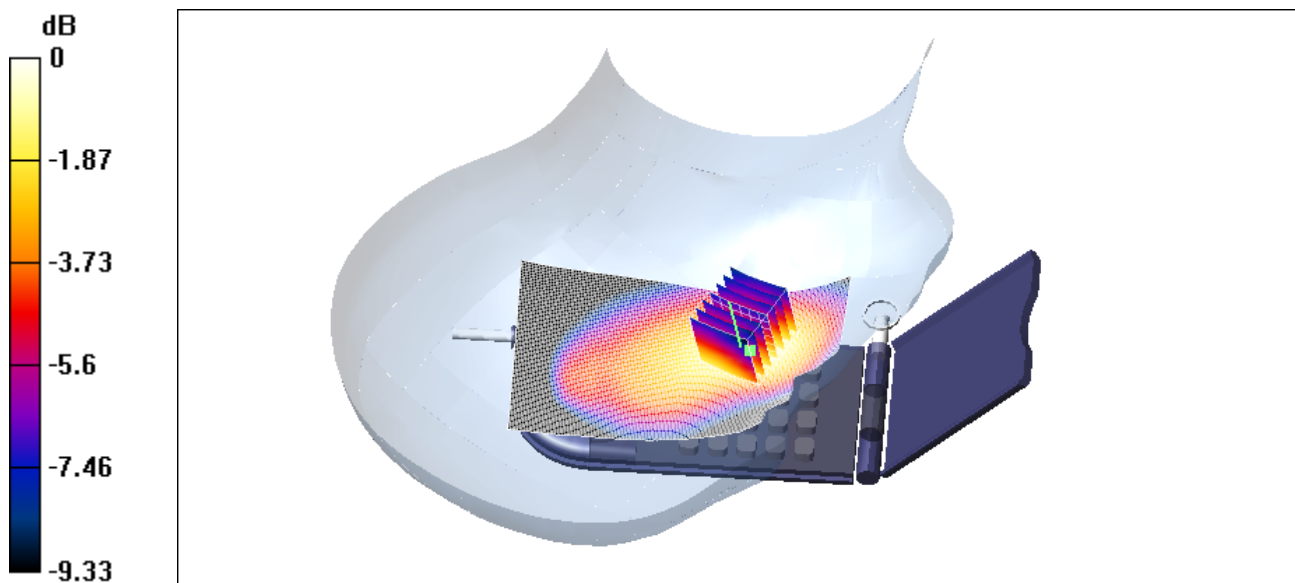
Peak SAR (extrapolated) = 0.259 W/kg

SAR(1 g) = 0.189 mW/g; SAR(10 g) = 0.132 mW/g

Reference Value = 9.39 V/m

Power Drift = 0.0 dB

Maximum value of SAR = 0.203 mW/g



0 dB = 0.203mW/g

Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

850_right_ch251_cheek

DUT: E-GSM850/GSM1900 Dual Band GPRS Terminal Equipment; Type: -; Serial: INNO 98

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3

Medium: Head 850MHz Medium parameters used (interpolated): $f = 848.8$ MHz; $\sigma = 0.91$ mho/m; $\epsilon_r = 41.5$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1711; ConvF(6.2, 6.2, 6.2); Calibrated: 12/16/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 1/12/2004
- Phantom: SAM 12; Type: TP-1217; Serial: QD000P40CA
- Measurement SW: DASY4, V4.2 Build 12; Postprocessing SW: SEMCAD, V1.8 Build 93

INNO98/Area Scan (81x141x1): Measurement grid: dx=10mm, dy=10mm

Reference Value = 7.71 V/m

Power Drift = -0.01 dB

Maximum value of SAR = 0.550 mW/g

INNO98/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

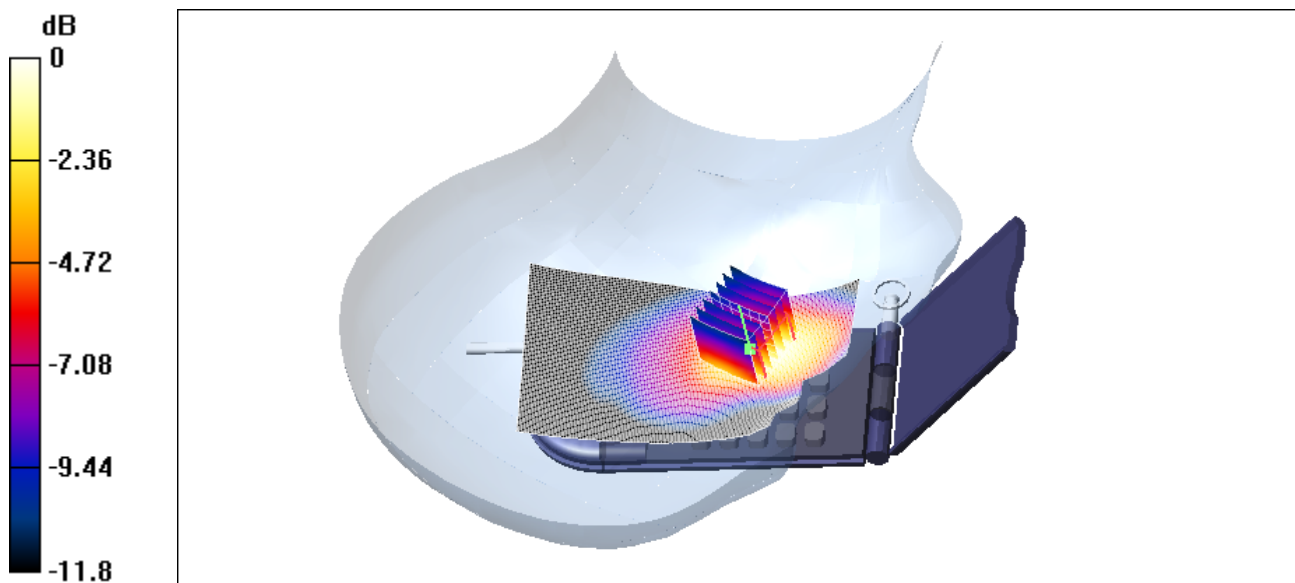
Peak SAR (extrapolated) = 0.894 W/kg

SAR(1 g) = 0.515 mW/g; SAR(10 g) = 0.321 mW/g

Reference Value = 7.71 V/m

Power Drift = -0.01 dB

Maximum value of SAR = 0.574 mW/g



0 dB = 0.574mW/g

Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

850_left_ch189_cheek

DUT: E-GSM850/GSM1900 Dual Band GPRS Terminal Equipment; Type: -; Serial: INNO 98

Communication System: GSM 850; Frequency: 836.4 MHz; Duty Cycle: 1:8.3

Medium: Head 850MHz Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.905$ mho/m;

$\epsilon_r = 41.5$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1711; ConvF(6.2, 6.2, 6.2); Calibrated: 12/16/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 1/12/2004
- Phantom: SAM 12; Type: TP-1217; Serial: QD000P40CA
- Measurement SW: DASY4, V4.2 Build 12; Postprocessing SW: SEMCAD, V1.8 Build 93

INNO98/Area Scan (81x141x1): Measurement grid: dx=10mm, dy=10mm

Reference Value = 6.77 V/m

Power Drift = 0.006 dB

Maximum value of SAR = 0.468 mW/g

INNO98/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

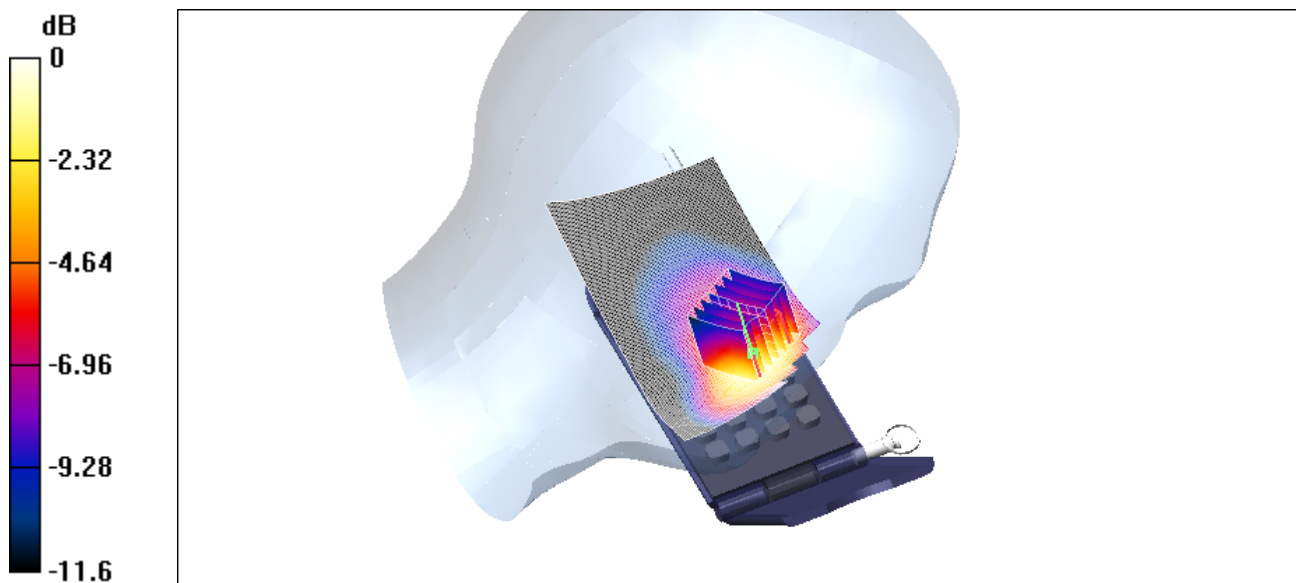
Peak SAR (extrapolated) = 0.624 W/kg

SAR(1 g) = 0.437 mW/g; SAR(10 g) = 0.288 mW/g

Reference Value = 6.77 V/m

Power Drift = 0.006 dB

Maximum value of SAR = 0.474 mW/g



0 dB = 0.474mW/g

Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

850_left_ch189_tilted

DUT: E-GSM850/GSM1900 Dual Band GPRS Terminal Equipment; Type: -; Serial: INNO 98

Communication System: GSM 850; Frequency: 836.4 MHz; Duty Cycle: 1:8.3

Medium: Head 850MHz Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.905$ mho/m;

$\epsilon_r = 41.5$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1711; ConvF(6.2, 6.2, 6.2); Calibrated: 12/16/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 1/12/2004
- Phantom: SAM 12; Type: TP-1217; Serial: QD000P40CA
- Measurement SW: DASY4, V4.2 Build 12; Postprocessing SW: SEMCAD, V1.8 Build 93

INNO98/Area Scan (81x141x1): Measurement grid: dx=10mm, dy=10mm

Reference Value = 9.22 V/m

Power Drift = 0.008 dB

Maximum value of SAR = 0.181 mW/g

INNO98/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

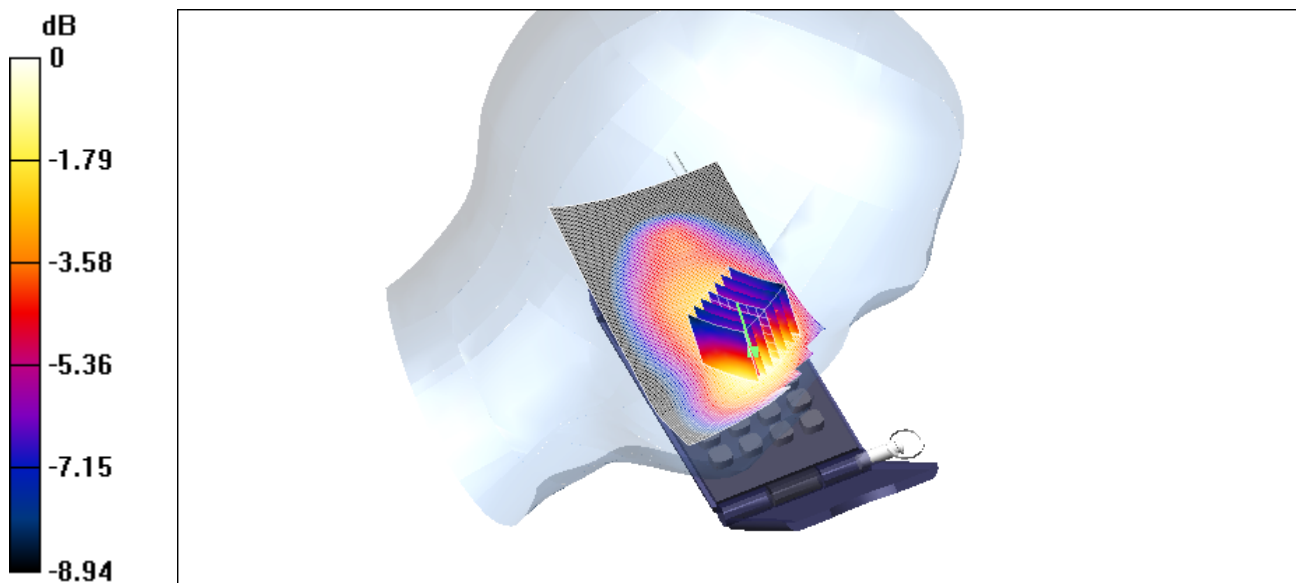
Peak SAR (extrapolated) = 0.231 W/kg

SAR(1 g) = 0.173 mW/g; SAR(10 g) = 0.121 mW/g

Reference Value = 9.22 V/m

Power Drift = 0.008 dB

Maximum value of SAR = 0.185 mW/g



Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

850_flat_ch128_back

DUT: E-GSM850/GSM1900 Dual Band GPRS Terminal Equipment; Type: -; Serial: INNO 98

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3

Medium: Muscle 850 MHz Medium parameters used (interpolated): $f = 824.2$ MHz; $\sigma = 0.966$ mho/m; $\epsilon_r = 55.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1711; ConvF(6, 6, 6); Calibrated: 12/16/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 1/12/2004
- Phantom: SAM 12; Type: TP-1217; Serial: QD000P40CA
- Measurement SW: DASY4, V4.2 Build 12; Postprocessing SW: SEMCAD, V1.8 Build 93

INNO98/Area Scan (91x141x1): Measurement grid: dx=10mm, dy=10mm

Reference Value = 10.6 V/m

Power Drift = -0.005 dB

Maximum value of SAR = 0.168 mW/g

INNO98/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

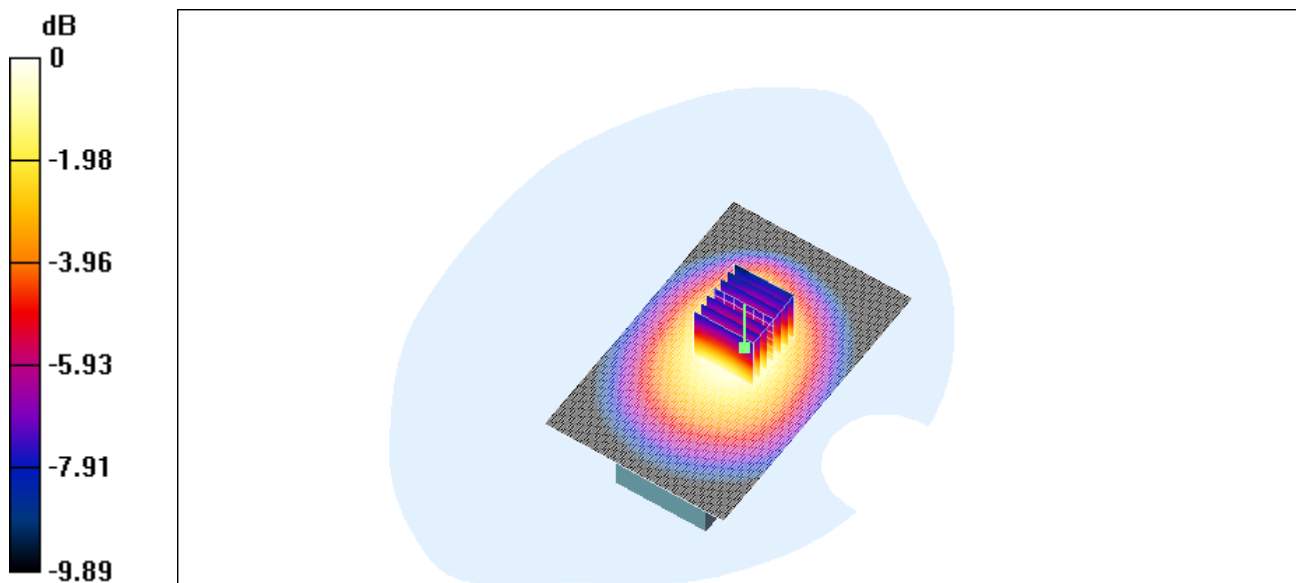
Peak SAR (extrapolated) = 0.206 W/kg

SAR(1 g) = 0.155 mW/g; SAR(10 g) = 0.111 mW/g

Reference Value = 10.6 V/m

Power Drift = -0.005 dB

Maximum value of SAR = 0.164 mW/g



0 dB = 0.164mW/g

Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

850_flat_ch189_front

DUT: E-GSM850/GSM1900 Dual Band GPRS Terminal Equipment; Type: -; Serial: INNO 98

Communication System: GSM 850; Frequency: 836.4 MHz; Duty Cycle: 1:8.3

Medium: Muscle 850 MHz Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.975$ mho/m; $\epsilon_r = 55.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1711; ConvF(6, 6, 6); Calibrated: 12/16/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 1/12/2004
- Phantom: SAM 12; Type: TP-1217; Serial: QD000P40CA
- Measurement SW: DASY4, V4.2 Build 12; Postprocessing SW: SEMCAD, V1.8 Build 93

INNO98/Area Scan (91x141x1): Measurement grid: dx=10mm, dy=10mm

Reference Value = 5.25 V/m

Power Drift = 0.0 dB

Maximum value of SAR = 0.065 mW/g

INNO98/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

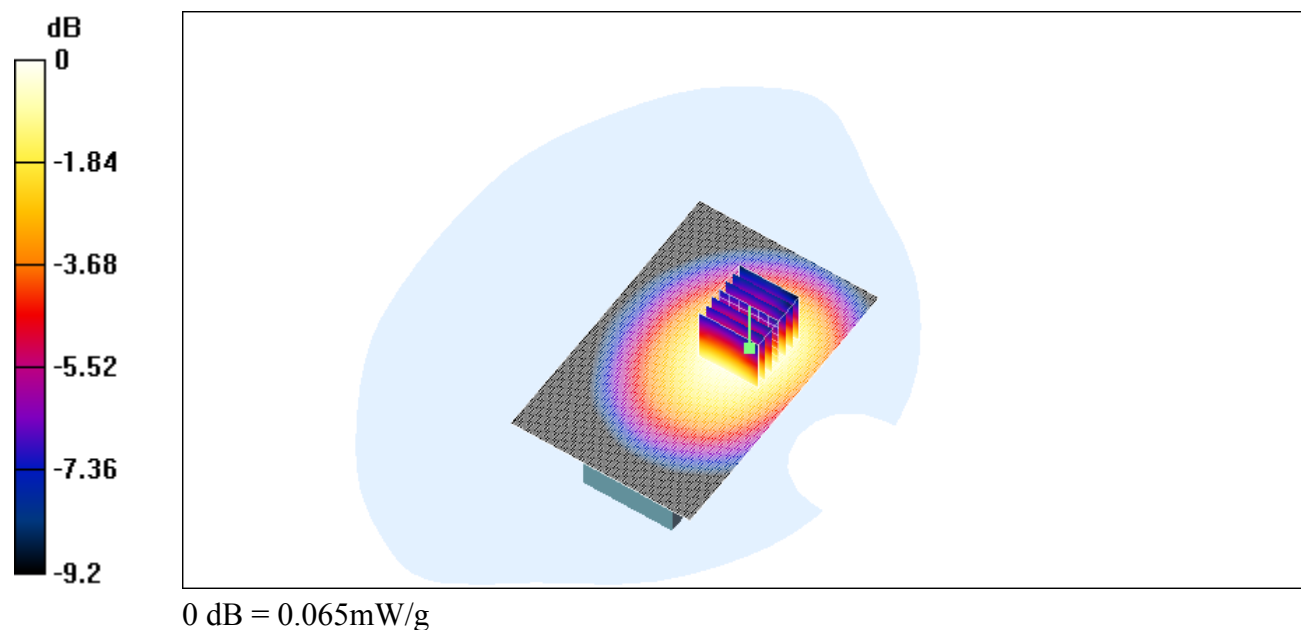
Peak SAR (extrapolated) = 0.081 W/kg

SAR(1 g) = 0.062 mW/g; SAR(10 g) = 0.045 mW/g

Reference Value = 5.25 V/m

Power Drift = 0.0 dB

Maximum value of SAR = 0.065 mW/g



Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

850_flat_ch189_back

DUT: E-GSM850/GSM1900 Dual Band GPRS Terminal Equipment; Type: -; Serial: INNO 98

Communication System: GSM 850; Frequency: 836.4 MHz; Duty Cycle: 1:8.3

Medium: Muscle 850 MHz Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.975$ mho/m; $\epsilon_r = 55.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1711; ConvF(6, 6, 6); Calibrated: 12/16/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 1/12/2004
- Phantom: SAM 12; Type: TP-1217; Serial: QD000P40CA
- Measurement SW: DASY4, V4.2 Build 12; Postprocessing SW: SEMCAD, V1.8 Build 93

INNO98/Area Scan (91x141x1): Measurement grid: dx=10mm, dy=10mm

Reference Value = 9.56 V/m

Power Drift = 0.01 dB

Maximum value of SAR = 0.135 mW/g

INNO98/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

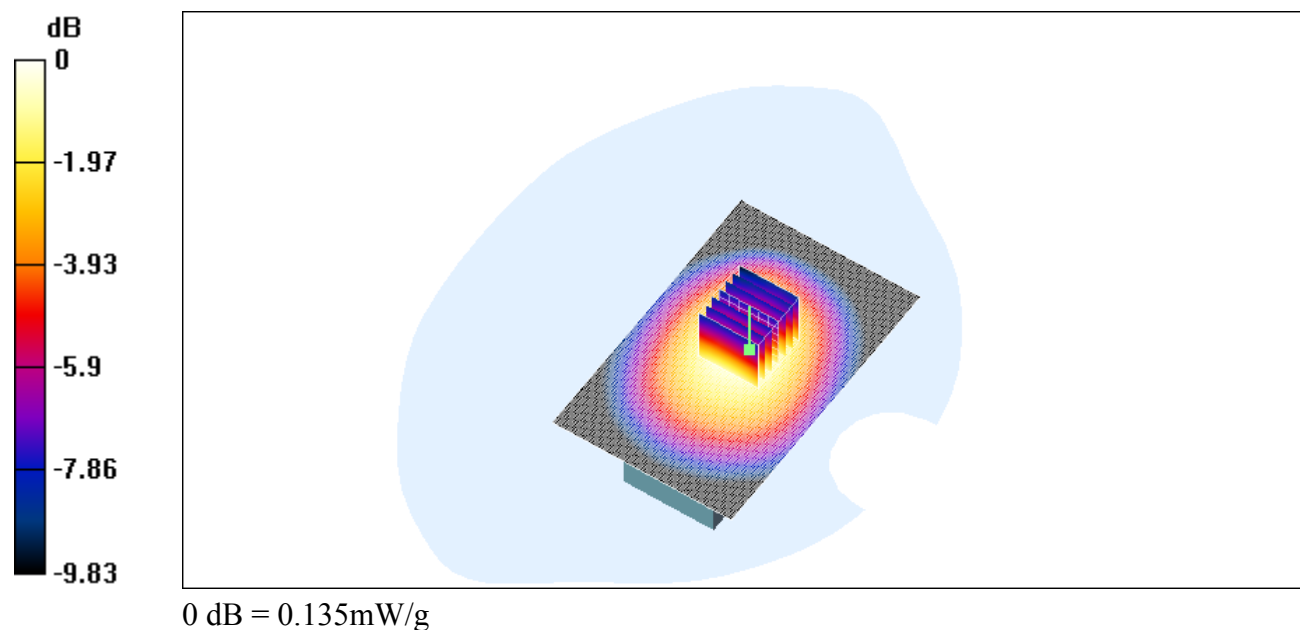
Peak SAR (extrapolated) = 0.170 W/kg

SAR(1 g) = 0.127 mW/g; SAR(10 g) = 0.089 mW/g

Reference Value = 9.56 V/m

Power Drift = 0.01 dB

Maximum value of SAR = 0.135 mW/g



Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

850_flat_ch251_back

DUT: E-GSM850/GSM1900 Dual Band GPRS Terminal Equipment; Type: -; Serial: INNO 98

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3

Medium: Muscle 850 MHz Medium parameters used (interpolated): $f = 848.8$ MHz; $\sigma = 0.985$ mho/m; $\epsilon_r = 55$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1711; ConvF(6, 6, 6); Calibrated: 12/16/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 1/12/2004
- Phantom: SAM 12; Type: TP-1217; Serial: QD000P40CA
- Measurement SW: DASY4, V4.2 Build 12; Postprocessing SW: SEMCAD, V1.8 Build 93

INNO98/Area Scan (91x141x1): Measurement grid: dx=10mm, dy=10mm

Reference Value = 10.3 V/m

Power Drift = 0.006 dB

Maximum value of SAR = 0.164 mW/g

INNO98/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

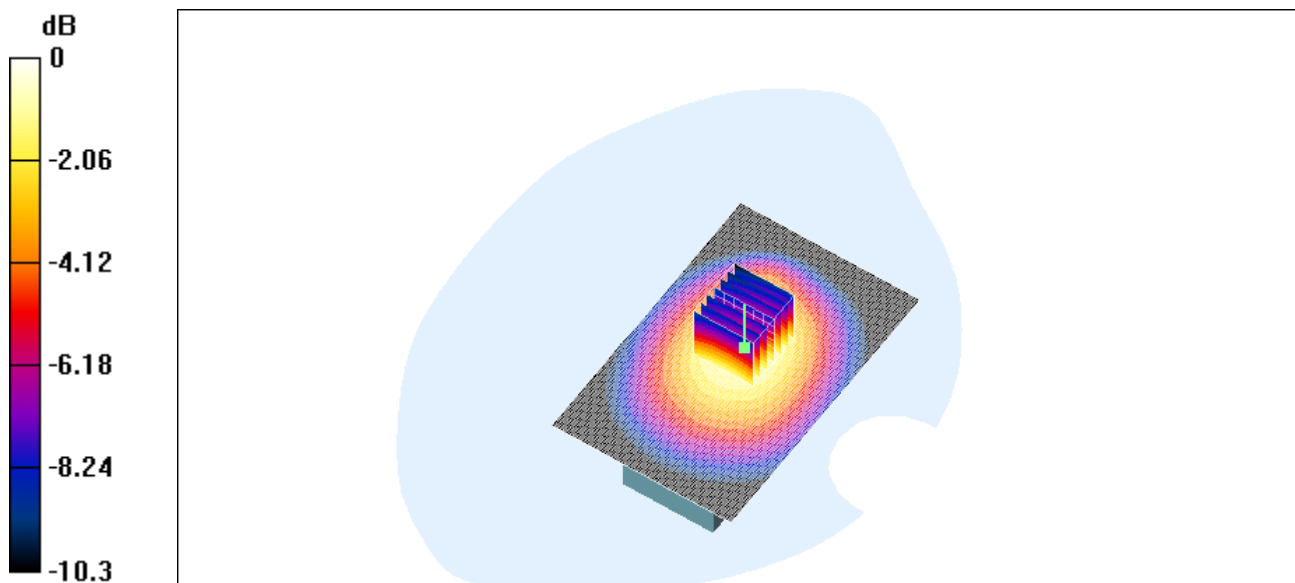
Peak SAR (extrapolated) = 0.206 W/kg

SAR(1 g) = 0.152 mW/g; SAR(10 g) = 0.108 mW/g

Reference Value = 10.3 V/m

Power Drift = 0.006 dB

Maximum value of SAR = 0.162 mW/g



0 dB = 0.162mW/g