

15.3 SAR test plots for GSM1900

GSM1900 GPRS 2slots Edge1 0mm Reduced Power 1850.2MHz

Communication System: UID 0, Generic GSM (0); Communication System Band: PCS 1900 (1850.0 - 1910.0 MHz); Frequency: 1850.2 MHz; Duty Cycle: 1:4.19952

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.53$ S/m; $\epsilon_r = 52.563$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration

Probe: EX3DV4 - SN3922; ConvF(7.76, 7.76, 7.76); Calibrated: 2013/06/04;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1372; Calibrated: 2013/06/03

Phantom: ELI v5.0 TP1207; Type: QDOVA002AA;

Measurement SW: DASYS2, Version 52.8 (7);

Area Scan (41x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.870 W/kg

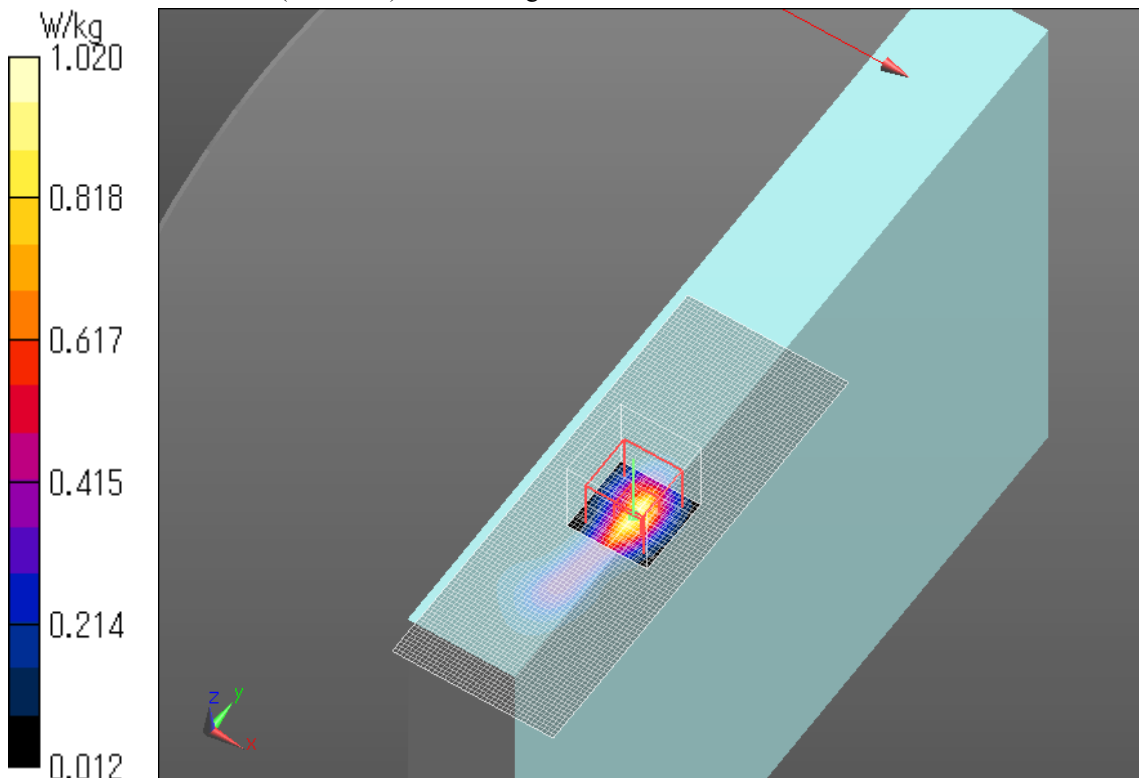
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 22.740 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 1.55 W/kg

SAR(1 g) = 0.586 W/kg; SAR(10 g) = 0.250 W/kg

Maximum value of SAR (measured) = 1.02 W/kg



Plot No.1

GSM1900 GPRS 2slots Edge1 0mm Reduced Power 1880MHz

Communication System: UID 0, Generic GSM (0); Communication System Band: PCS 1900 (1850.0 - 1910.0 MHz); Frequency: 1880 MHz; Duty Cycle: 1:4.19952

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.559$ S/m; $\epsilon_r = 52.555$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration

Probe: EX3DV4 - SN3922; ConvF(7.76, 7.76, 7.76); Calibrated: 2013/06/04;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1372; Calibrated: 2013/06/03

Phantom: ELI v5.0 TP1207; Type: QDOVA002AA;

Measurement SW: DASY52, Version 52.8 (7);

Area Scan (41x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.46 W/kg

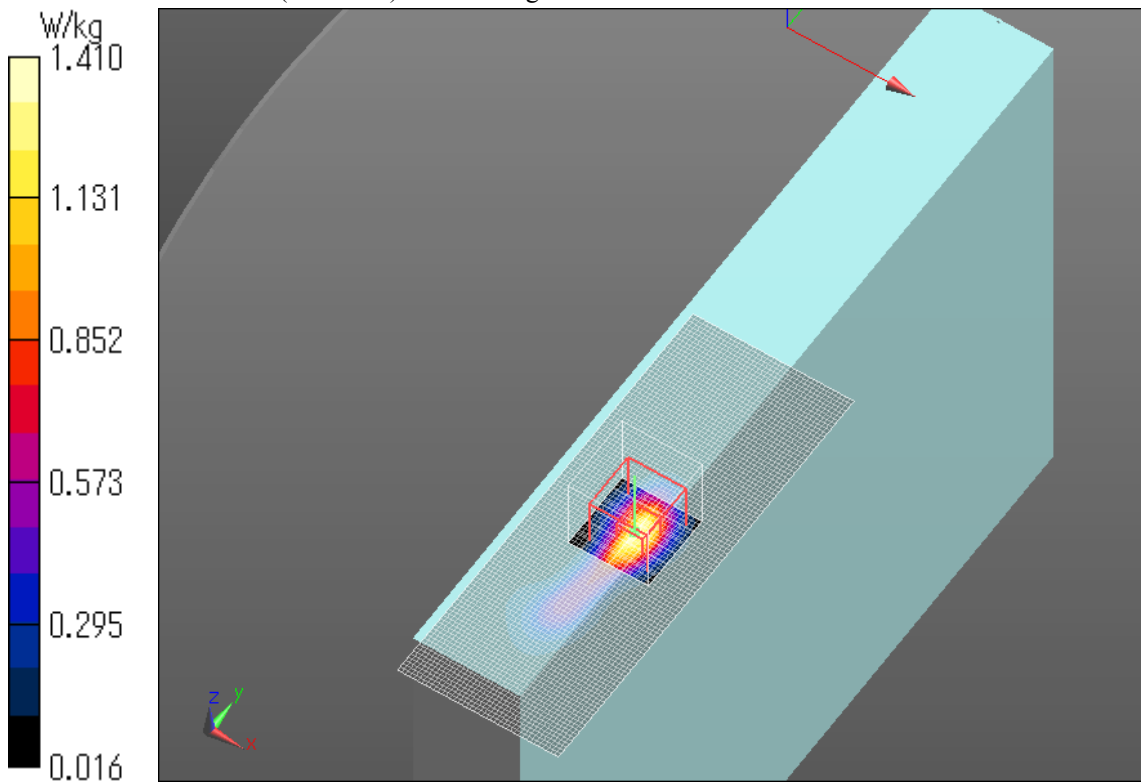
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 28.674 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 2.20 W/kg

SAR(1 g) = 0.871 W/kg; SAR(10 g) = 0.373 W/kg

Maximum value of SAR (measured) = 1.41 W/kg



GSM1900 GPRS 2slots Edge1 0mm Reduced Power 1909.8MHz

Communication System: UID 0, Generic GSM (0); Communication System Band: PCS 1900 (1850.0 - 1910.0 MHz); Frequency: 1909.8 MHz; Duty Cycle: 1:4.19952

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.591$ S/m; $\epsilon_r = 52.474$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration

Probe: EX3DV4 - SN3922; ConvF(7.76, 7.76, 7.76); Calibrated: 2013/06/04;

Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used)),

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1372; Calibrated: 2013/06/03

Phantom: ELI v5.0 TP1207; Type: QDOVA002AA;

Measurement SW: DASYS2, Version 52.8 (7);

Area Scan (41x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.73 W/kg

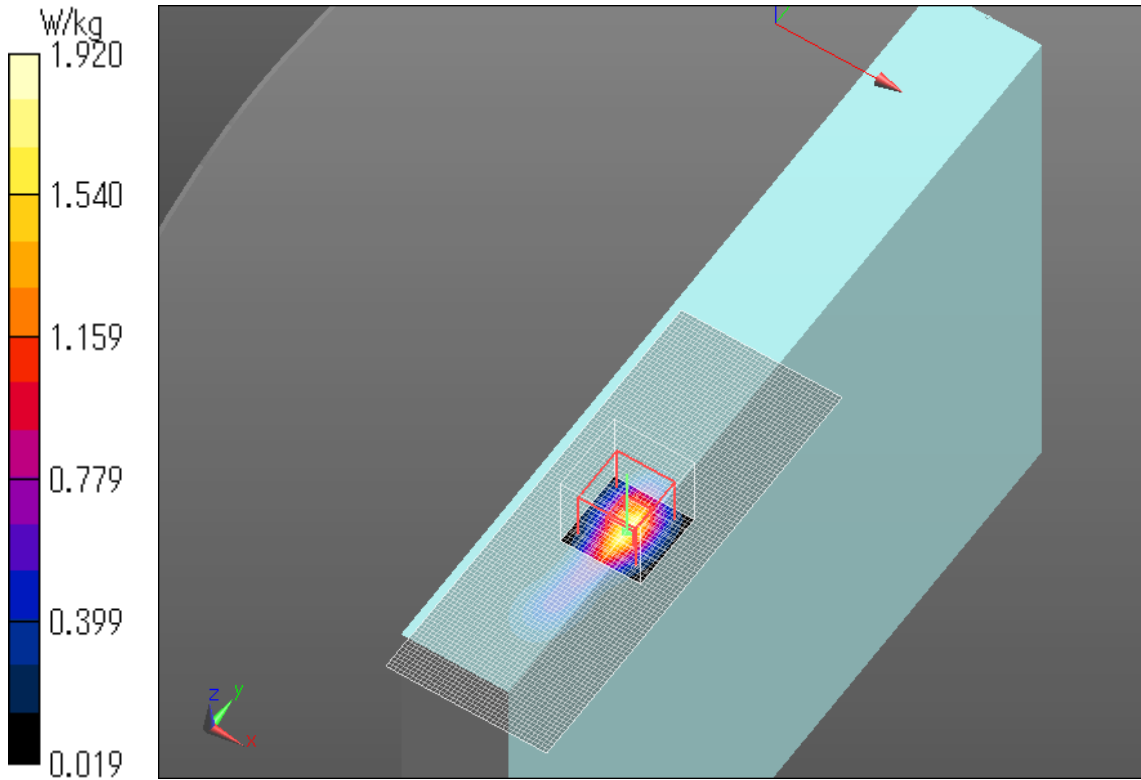
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 32.366 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 2.77 W/kg

SAR(1 g) = 1.13 W/kg; SAR(10 g) = 0.484 W/kg

Maximum value of SAR (measured) = 1.92 W/kg



Plot No.3

GSM1900 GPRS 2slots EdgeI Reduced Power 1909.8MHz

Communication System: UID 0, Generic GSM (0); Communication System Band: PCS 1900 (1850.0 - 1910.0 MHz); Frequency: 1909.8 MHz; Duty Cycle: 1:4.19952

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.591$ S/m; $\epsilon_r = 52.474$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration

Probe: EX3DV4 - SN3922; ConvF(7.76, 7.76, 7.76); Calibrated: 2013/06/04; $\{\text{Probe: Calibration Date}\}$

Sensor-Surface: 2mm (Mechanical Surface Detection)

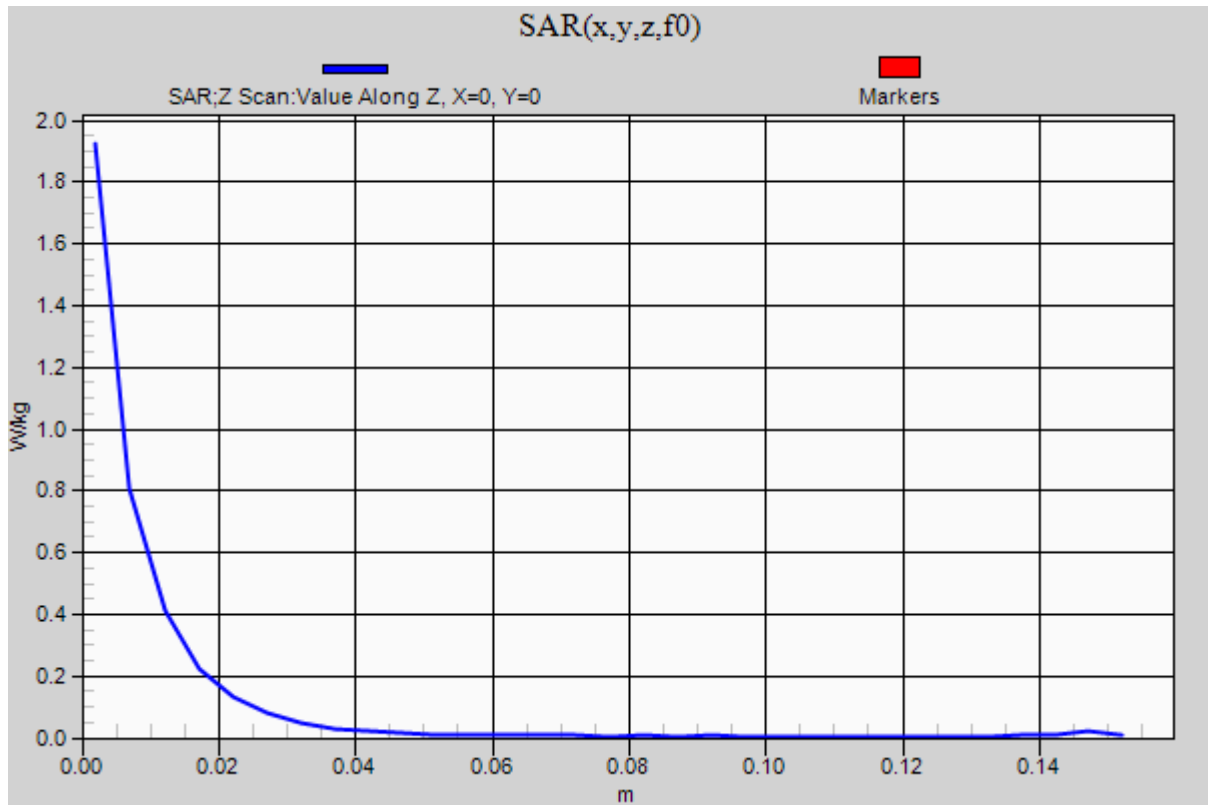
Electronics: DAE4 Sn1372; Calibrated: 2013/06/03

Phantom: ELI v5.0 TP1207; Type: QDOVA002AA; Serial: TP:1207

Measurement SW: DASY52, Version 52.8 (7);

Z Scan (1x1x31): Measurement grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of SAR (measured) = 1.92 W/kg



GSM1900 GPRS 2slots Rear 0mm Full Power 1880MHz

Communication System: UID 0, Generic GSM (0); Communication System Band: PCS 1900 (1850.0 - 1910.0 MHz); Frequency: 1880 MHz; Duty Cycle: 1:4.19952

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.559$ S/m; $\epsilon_r = 52.555$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration

Probe: EX3DV4 - SN3922; ConvF(7.76, 7.76, 7.76); Calibrated: 2013/06/04;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1372; Calibrated: 2013/06/03

Phantom: ELI v5.0 TP1207; Type: QDOVA002AA;

Measurement SW: DASY52, Version 52.8 (7);

Area Scan (51x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.161 W/kg

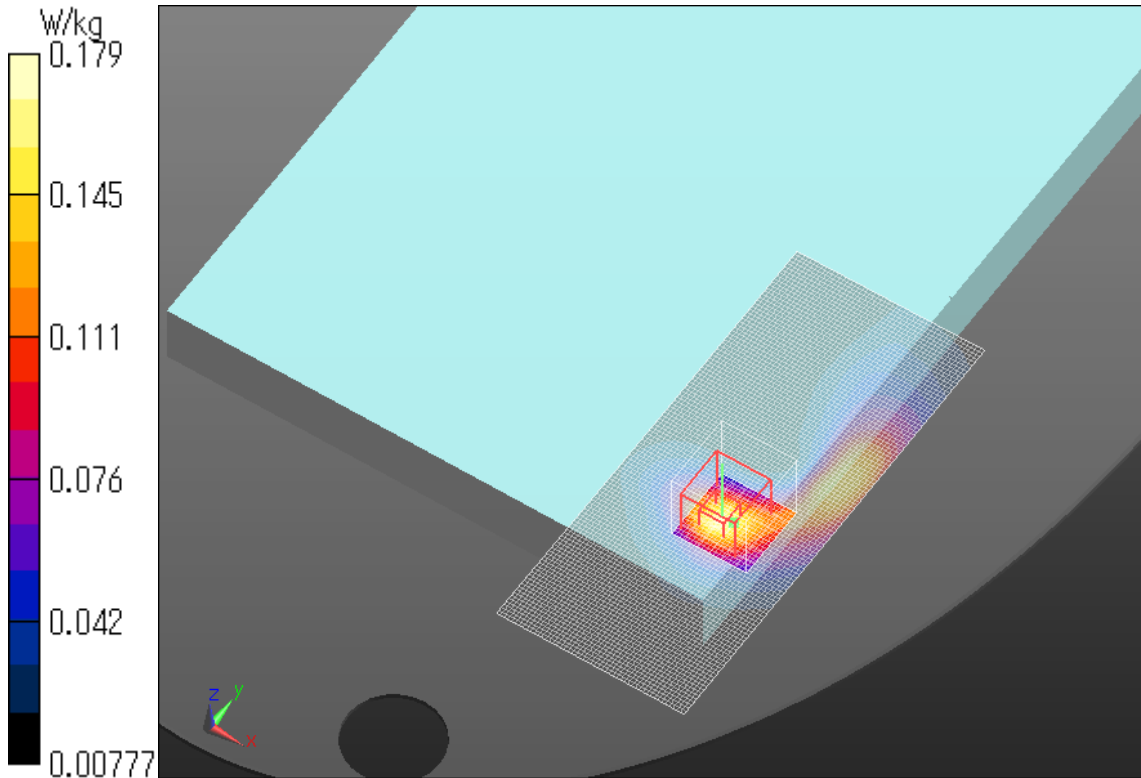
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.394 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.233 W/kg

SAR(1 g) = 0.128 W/kg; SAR(10 g) = 0.071 W/kg

Maximum value of SAR (measured) = 0.179 W/kg



Plot No.4

GSM1900 GPRS 2slots Edge1 16mm Full Power 1880MHz

Communication System: UID 0, Generic GSM (0); Communication System Band: PCS 1900 (1850.0 - 1910.0 MHz); Frequency: 1880 MHz; Duty Cycle: 1:4.19952

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.559$ S/m; $\epsilon_r = 52.555$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration

Probe: EX3DV4 - SN3922; ConvF(7.76, 7.76, 7.76); Calibrated: 2013/06/04;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1372; Calibrated: 2013/06/03

Phantom: ELI v5.0 TP1207; Type: QDOVA002AA;

Measurement SW: DASYS2, Version 52.8 (7);

Area Scan (41x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.618 W/kg

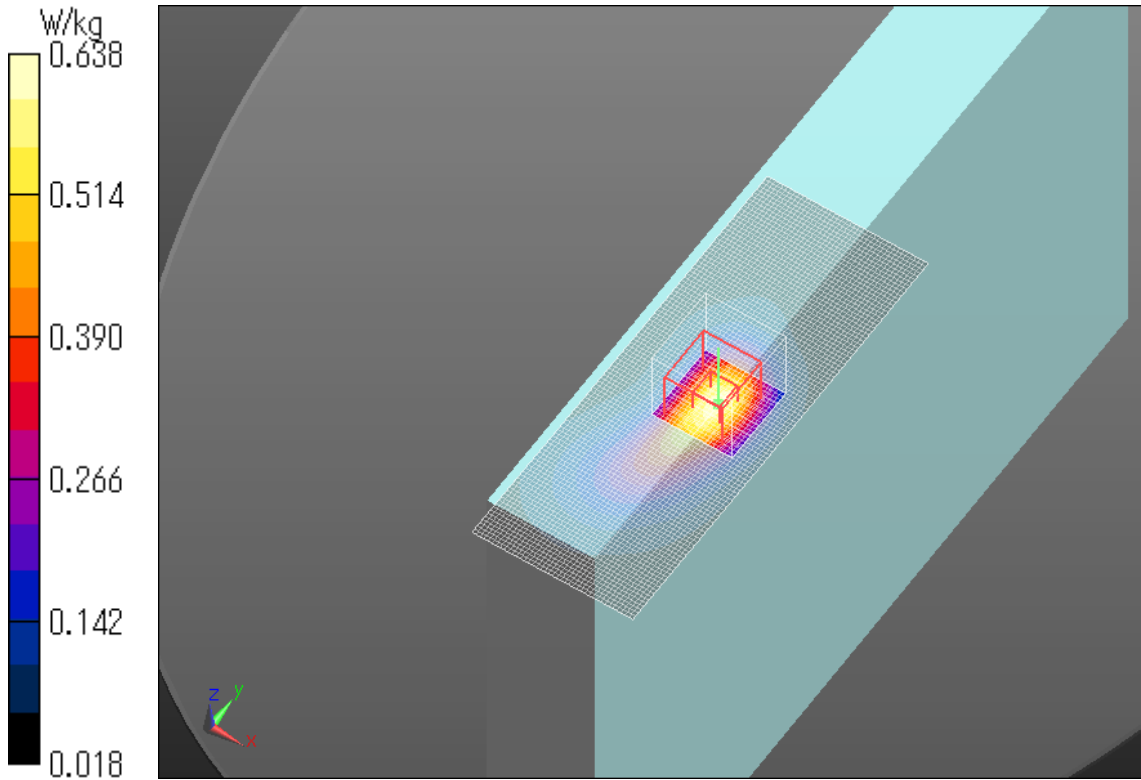
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 18.848 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.782 W/kg

SAR(1 g) = 0.474 W/kg; SAR(10 g) = 0.267 W/kg

Maximum value of SAR (measured) = 0.638 W/kg



Plot No.5

GSM1900 GPRS 2slots Edge4 0mm Full Power 1880MHz

Communication System: UID 0, Generic GSM (0); Communication System Band: PCS 1900 (1850.0 - 1910.0 MHz); Frequency: 1880 MHz; Duty Cycle: 1:4.19952

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.559$ S/m; $\epsilon_r = 52.555$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration

Probe: EX3DV4 - SN3922; ConvF(7.76, 7.76, 7.76); Calibrated: 2013/06/04;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1372; Calibrated: 2013/06/03

Phantom: ELI v5.0 TP1207; Type: QDOVA002AA; Serial: TP:1207

Measurement SW: DASY52, Version 52.8 (7);

Area Scan (41x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.508 W/kg

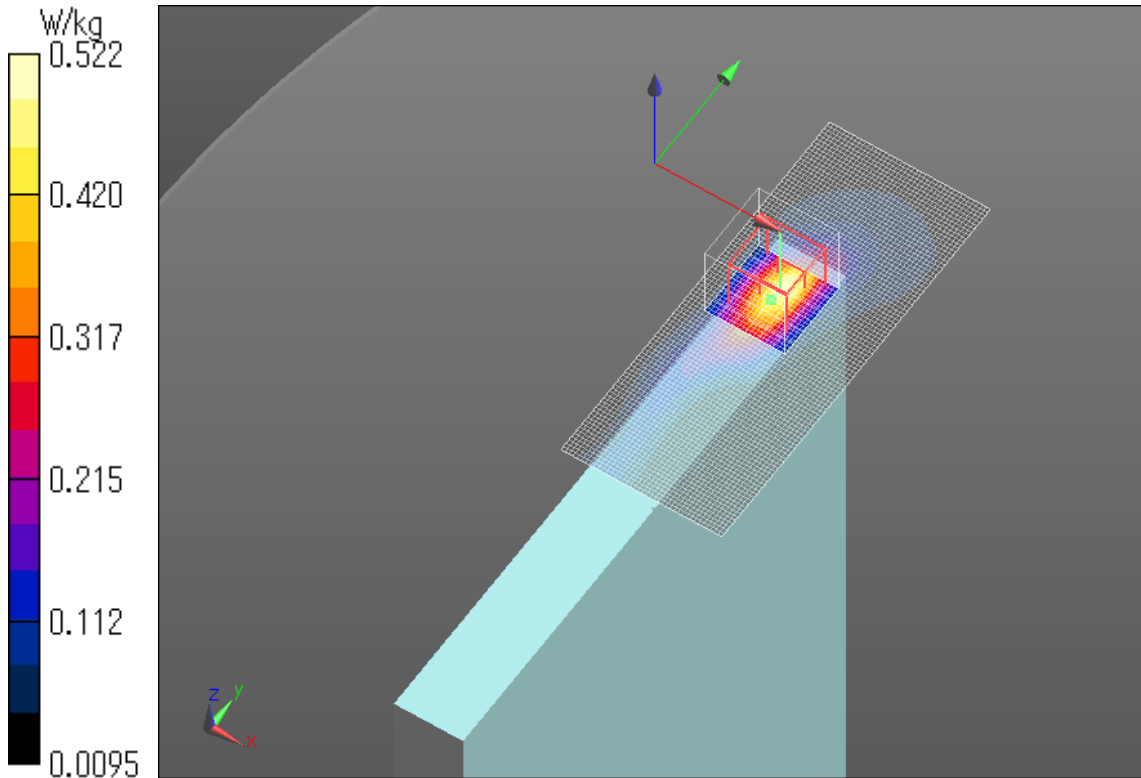
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 18.165 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.694 W/kg

SAR(1 g) = 0.353 W/kg; SAR(10 g) = 0.177 W/kg

Maximum value of SAR (measured) = 0.522 W/kg



Plot No.6