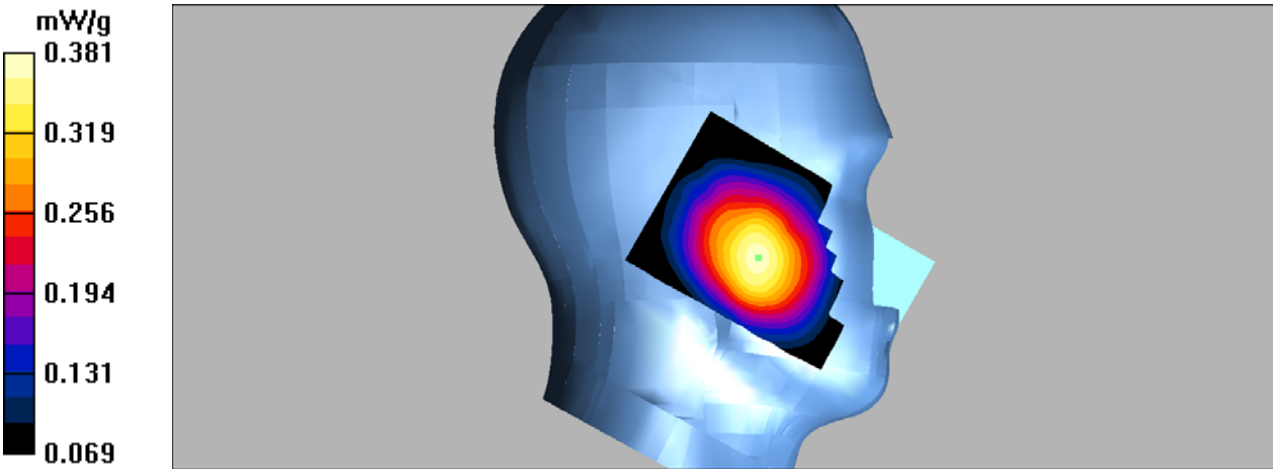
DUT: 3G Smart phone; Type: TS451A;

Communication System: GSM bands; Frequency: 836.6 MHz;Duty Cycle: 1:8
Medium parameters used: f = 836.6 MHz; σ = 0.92 mho/m; ε_r = 41.25; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY4 Configuration:
- Probe: EX3DV4 – SN7382; ConvF(10.50, 10.50, 10.50); Calibrated: 26/10/2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE – SN772; Calibrated: 25/10/2016
- Phantom: TWIN SAM; Type: Twin SAM V5.0; Serial: 1909
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Left Cheek/GSM 850 Mid/Area Scan (91x121x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.373 mW/g

Left Cheek/GSM 850 Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.40 V/m; Power Drift = -0.00 dB
Peak SAR (extrapolated) = 0.430 W/kg
SAR(1 g) = 0.362 mW/g; SAR(10 g) = 0.282 mW/g
Maximum value of SAR (measured) = 0.381 mW/g



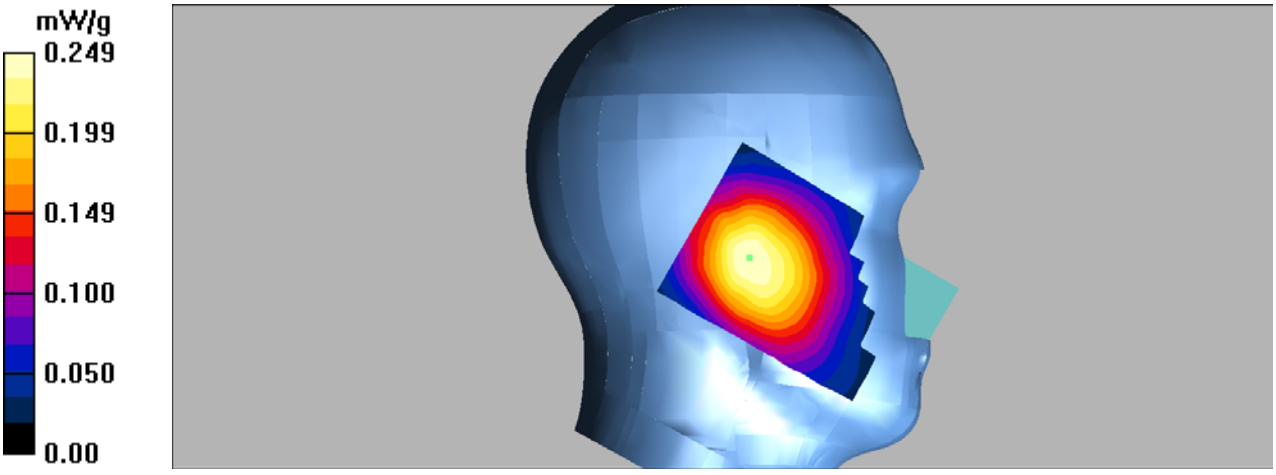
DUT: 3G Smart phone; Type: TS451A;

Communication System: GSM bands; Frequency: 836.6 MHz;Duty Cycle: 1:8
Medium parameters used: f = 836.6 MHz; σ = 0.92 mho/m; ε_r = 41.25; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY4 Configuration:
- Probe: EX3DV4 – SN7382; ConvF(10.50, 10.50, 10.50); Calibrated: 26/10/2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE – SN772; Calibrated: 25/10/2016
- Phantom: TWIN SAM; Type: Twin SAM V5.0; Serial: 1909
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Left Tilt/GSM 850 Mid/Area Scan (91x121x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.246 mW/g

Left Tilt/GSM 850 Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 11.5 V/m; Power Drift = -0.017 dB
Peak SAR (extrapolated) = 0.278 W/kg
SAR(1 g) = 0.235 mW/g; SAR(10 g) = 0.186 mW/g
Maximum value of SAR (measured) = 0.249 mW/g



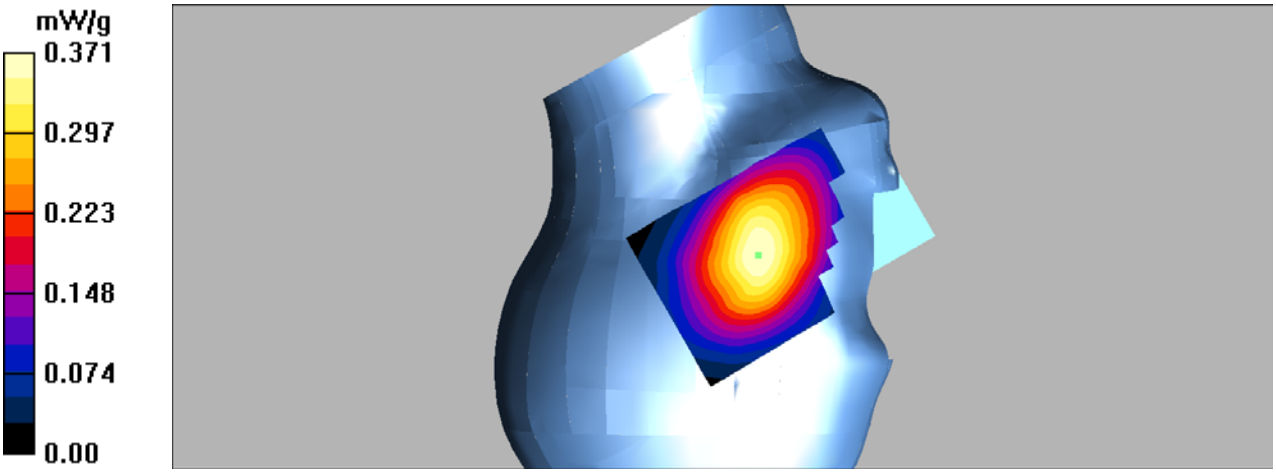
DUT: 3G Smart phone; Type: TS451A;

Communication System: GSM bands; Frequency: 836.6 MHz;Duty Cycle: 1:8
Medium parameters used: f = 836.6 MHz; σ = 0.92 mho/m; ε_r = 41.25; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY4 Configuration:
- Probe: EX3DV4 – SN7382; ConvF(10.50, 10.50, 10.50); Calibrated: 26/10/2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE – SN772; Calibrated: 25/10/2016
- Phantom: TWIN SAM; Type: Twin SAM V5.0; Serial: 1909
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Right Cheek/GSM 850 Mid/Area Scan (91x121x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.373 mW/g

Right Cheek/GSM 850 Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.08 V/m; Power Drift = -0.015 dB
Peak SAR (extrapolated) = 0.425 W/kg
SAR(1 g) = 0.355 mW/g; SAR(10 g) = 0.276 mW/g
Maximum value of SAR (measured) = 0.371 mW/g



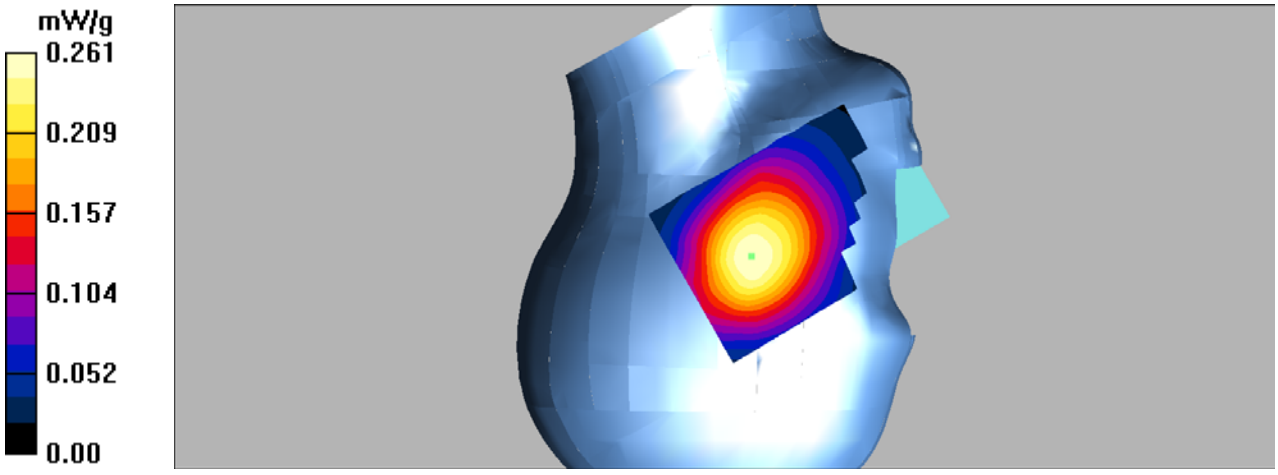
DUT: 3G Smart phone; Type: TS451A;

Communication System: GSM bands; Frequency: 836.6 MHz;Duty Cycle: 1:8
Medium parameters used: f = 836.6 MHz; σ = 0.92 mho/m; ε_r = 41.25; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY4 Configuration:
- Probe: EX3DV4 – SN7382; ConvF(10.50, 10.50, 10.50); Calibrated: 26/10/2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE – SN772; Calibrated: 25/10/2016
- Phantom: TWIN SAM; Type: Twin SAM V5.0; Serial: 1909
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Right Tilt/GSM 850 Mid/Area Scan (91x121x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.261 mW/g

Right Tilt/GSM 850 Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 11.5 V/m; Power Drift = -0.042 dB
Peak SAR (extrapolated) = 0.289 W/kg
SAR(1 g) = 0.250 mW/g; SAR(10 g) = 0.197 mW/g
Maximum value of SAR (measured) = 0.261 mW/g



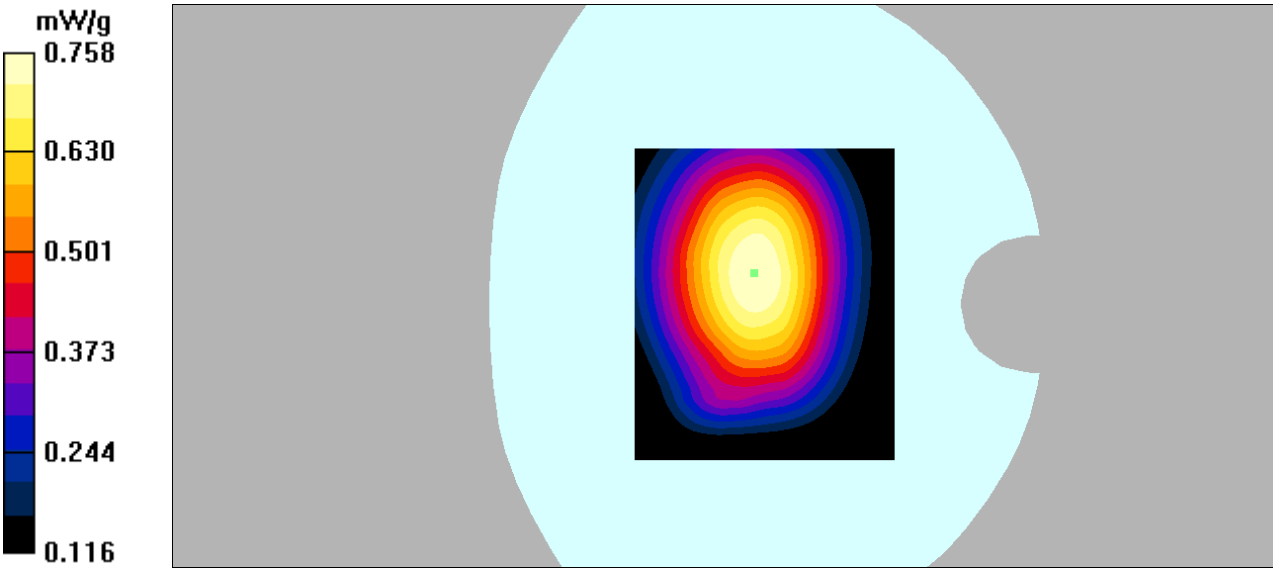
DUT: 3G Smart phone; Type: TS451A;

Communication System: GSM bands; Frequency: 836.6 MHz;Duty Cycle: 1:8
Medium parameters used: f = 836.6 MHz; σ = 0.97 mho/m; ε_r = 55.41; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: EX3DV4 – SN7382; ConvF(10.54, 10.54, 10.54); Calibrated: 26/10/2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE – SN772; Calibrated: 25/10/2016
- Phantom: TWIN SAM; Type: Twin SAM V5.0; Serial: 1909
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Body-worn/GSM 850 Mid/Area Scan (101x121x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.763 mW/g

Body-worn/GSM 850 Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 27.6 V/m; Power Drift = -0.013 dB
Peak SAR (extrapolated) = 0.885 W/kg
SAR(1 g) = 0.725 mW/g; SAR(10 g) = 0.554 mW/g
Maximum value of SAR (measured) = 0.758 mW/g



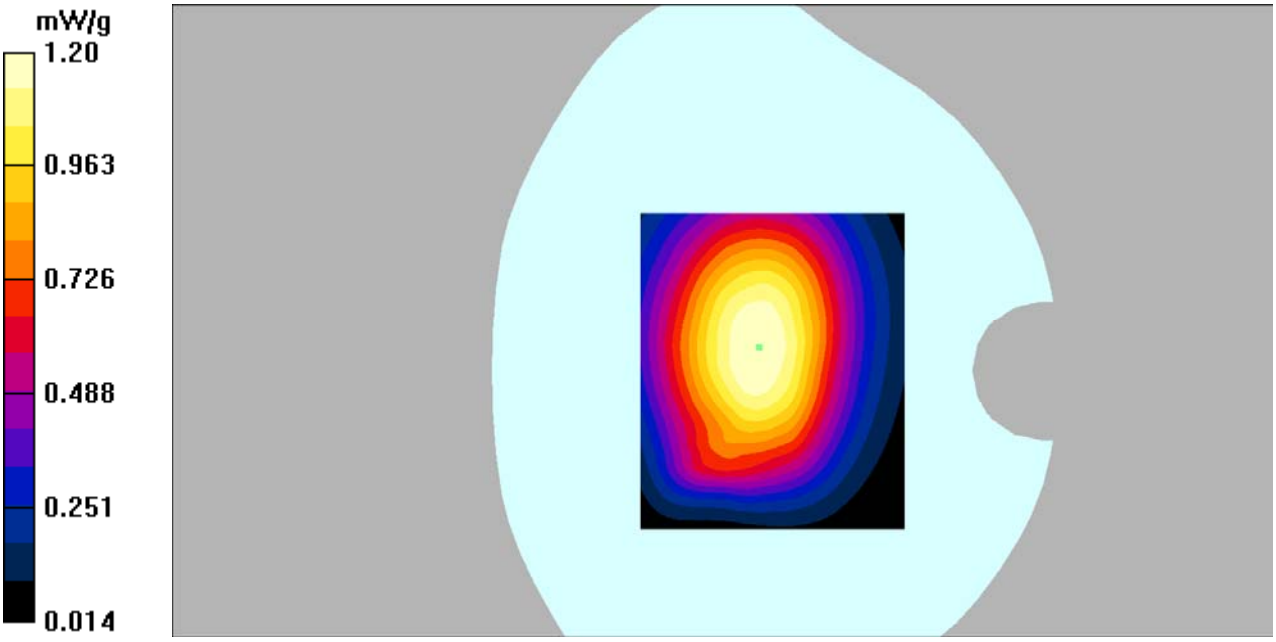
DUT: 3G Smart phone; Type: TS451A;

Communication System: GPRS bands-4slots; Frequency: 824.2 MHz;Duty Cycle: 1:2
Medium parameters used: f = 824.2 MHz; σ = 0.97 mho/m; ε_r = 55.85; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: EX3DV4 – SN7382; ConvF(10.54, 10.54, 10.54); Calibrated: 26/10/2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE – SN772; Calibrated: 25/10/2016
- Phantom: TWIN SAM; Type: Twin SAM V5.0; Serial: 1909
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Hotspot Back/GPRS 850 Low/Area Scan (101x121x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 1.22 mW/g

Hotspot Back/GPRS 850 Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 36.2 V/m; Power Drift = 0.080 dB
Peak SAR (extrapolated) = 1.45 W/kg
SAR(1 g) = 1.17 mW/g; SAR(10 g) = 0.891 mW/g
Maximum value of SAR (measured) = 1.20 mW/g



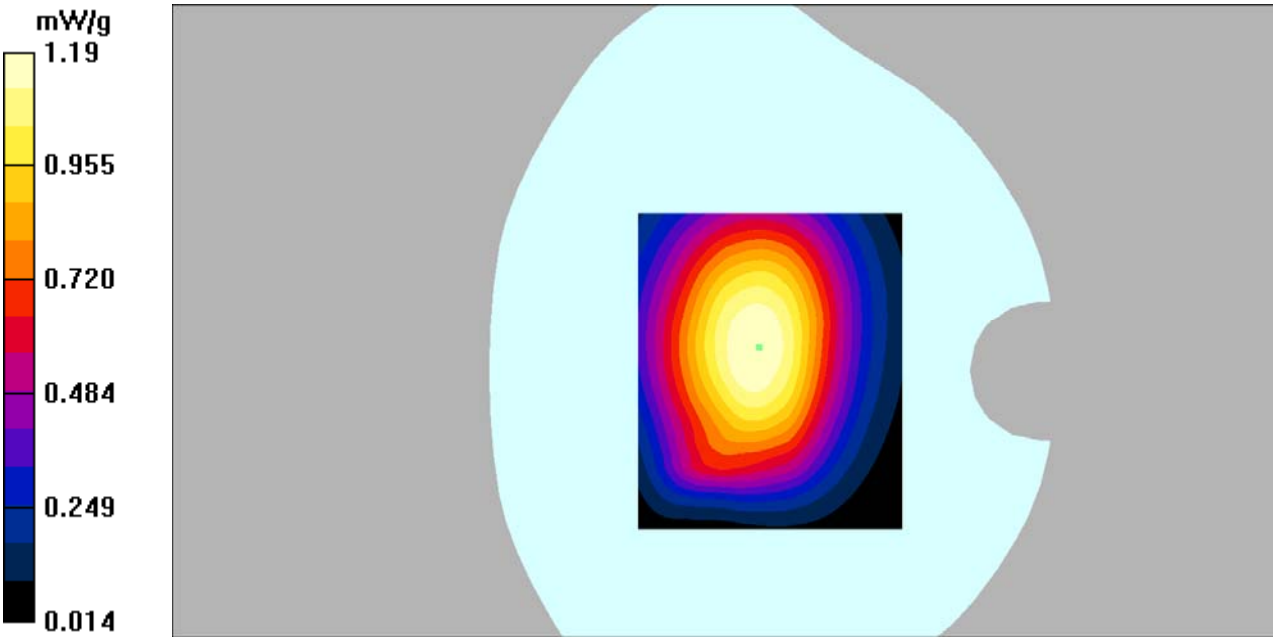
DUT: 3G Smart phone; Type: TS451A;

Communication System: GPRS bands-4slots; Frequency: 836.6 MHz;Duty Cycle: 1:2
Medium parameters used: f = 836.6 MHz; σ = 0.97 mho/m; ε_r = 55.41; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: EX3DV4 – SN7382; ConvF(10.54, 10.54, 10.54); Calibrated: 26/10/2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE – SN772; Calibrated: 25/10/2016
- Phantom: TWIN SAM; Type: Twin SAM V5.0; Serial: 1909
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Hotspot Back/GPRS 850 Mid/Area Scan (101x121x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 1.20 mW/g

Hotspot Back/GPRS 850 Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 36.1 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 1.42 W/kg
SAR(1 g) = 1.14 mW/g; SAR(10 g) = 0.872 mW/g
Maximum value of SAR (measured) = 1.19 mW/g



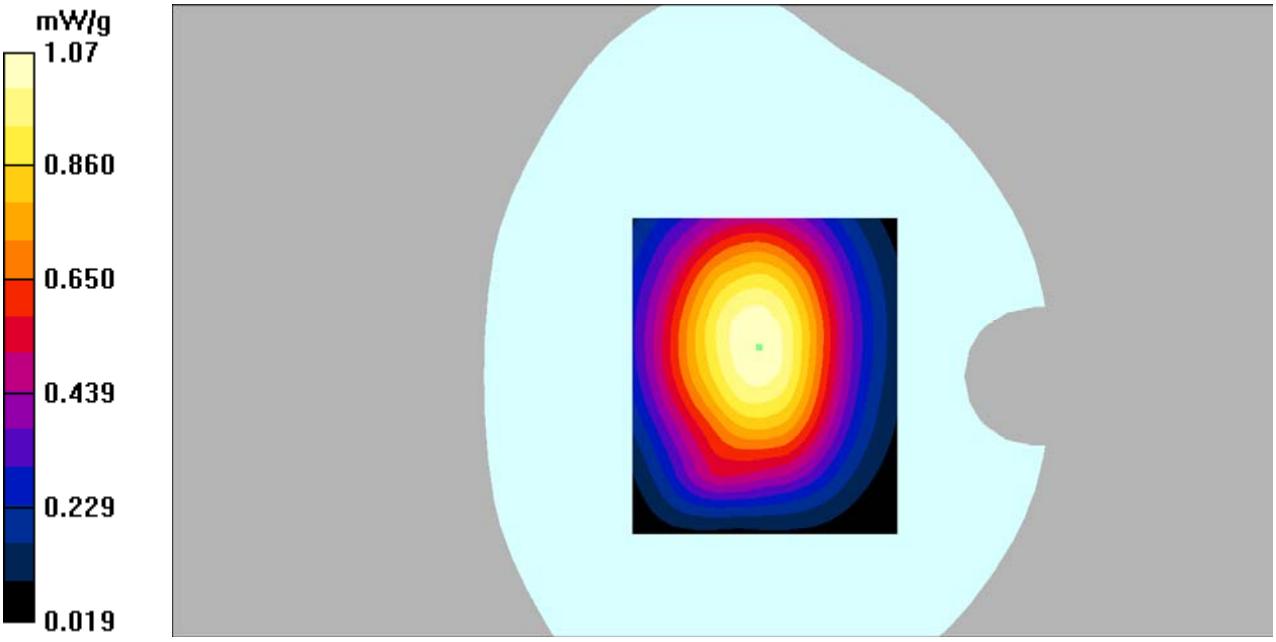
DUT: 3G Smart phone; Type: TS451A;

Communication System: GPRS bands-4slots; Frequency: 848.8 MHz;Duty Cycle: 1:2
Medium parameters used: f = 848.8 MHz; σ = 0.96 mho/m; ε_r = 55.28; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: EX3DV4 – SN7382; ConvF(10.54, 10.54, 10.54); Calibrated: 26/10/2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE – SN772; Calibrated: 25/10/2016
- Phantom: TWIN SAM; Type: Twin SAM V5.0; Serial: 1909
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Hotspot Back/GPRS 850 High/Area Scan (101x121x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 1.07 mW/g

Hotspot Back/GPRS 850 High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 34.4 V/m; Power Drift = -0.151 dB
Peak SAR (extrapolated) = 1.27 W/kg
SAR(1 g) = 1.02 mW/g; SAR(10 g) = 0.778 mW/g
Maximum value of SAR (measured) = 1.07 mW/g



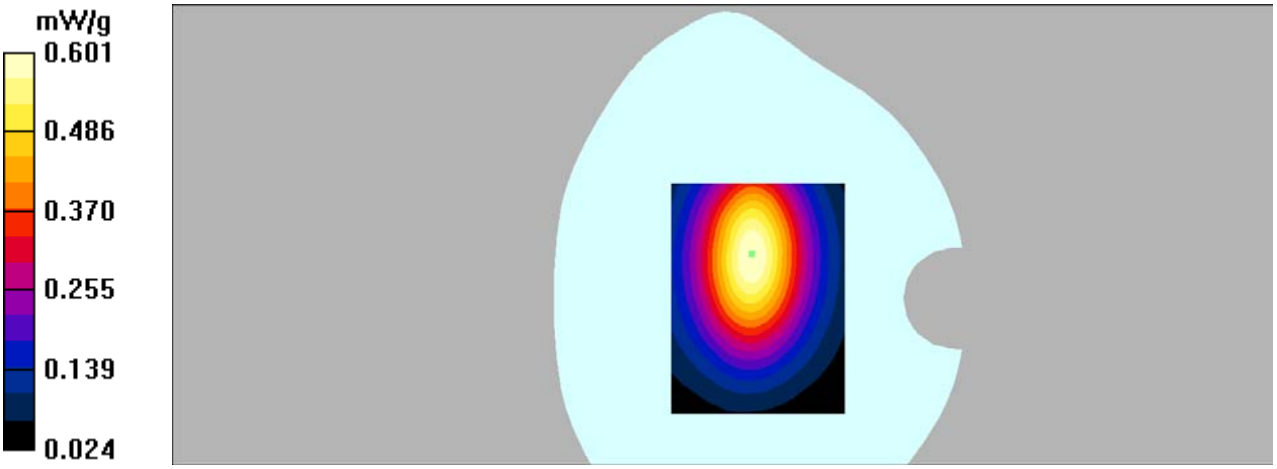
DUT: 3G Smart phone; Type: TS451A;

Communication System: GPRS bands-4slots; Frequency: 836.6 MHz;Duty Cycle: 1:2
Medium parameters used: f = 836.6 MHz; σ = 0.97 mho/m; ε_r = 55.41; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: EX3DV4 – SN7382; ConvF(10.54, 10.54, 10.54); Calibrated: 26/10/2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE – SN772; Calibrated: 25/10/2016
- Phantom: TWIN SAM; Type: Twin SAM V5.0; Serial: 1909
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Hotspot Left/GPRS 850 Mid/Area Scan (91x121x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.614 mW/g

Hotspot Left/GPRS 850 Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 22.9 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.766 W/kg
SAR(1 g) = 0.572 mW/g; SAR(10 g) = 0.407 mW/g
Maximum value of SAR (measured) = 0.601 mW/g



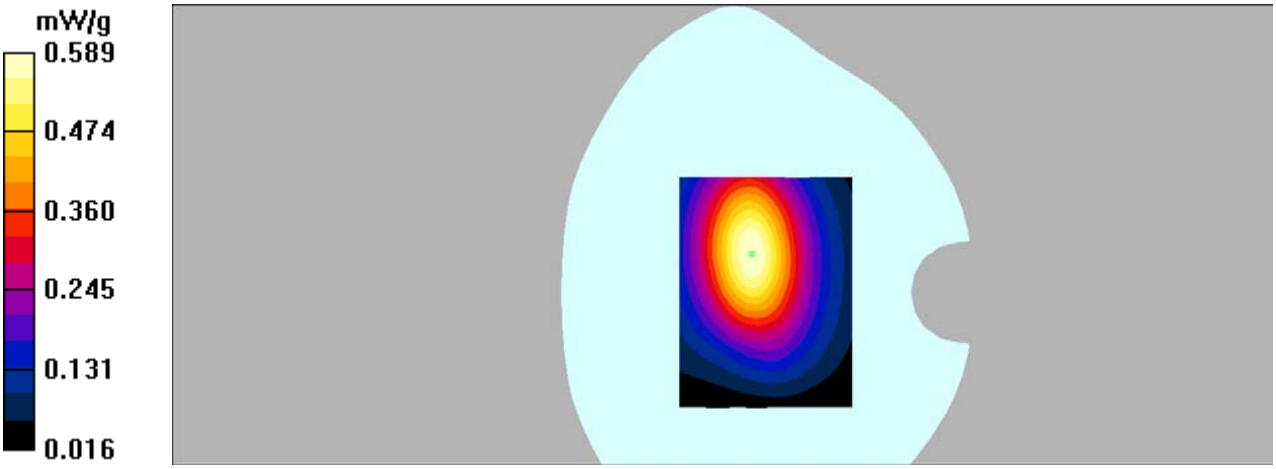
DUT: 3G Smart phone; Type: TS451A;

Communication System: GPRS bands-4slots; Frequency: 836.6 MHz;Duty Cycle: 1:2
Medium parameters used: f = 836.6 MHz; σ = 0.97 mho/m; ε_r = 55.41; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: EX3DV4 – SN7382; ConvF(10.54, 10.54, 10.54); Calibrated: 26/10/2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE – SN772; Calibrated: 25/10/2016
- Phantom: TWIN SAM; Type: Twin SAM V5.0; Serial: 1909
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Hotspot Right/GPRS 850 Mid/Area Scan (91x121x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.593 mW/g

Hotspot Right/GPRS 850 Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 22.0 V/m; Power Drift = 0.064 dB
Peak SAR (extrapolated) = 0.752 W/kg
SAR(1 g) = 0.558 mW/g; SAR(10 g) = 0.393 mW/g
Maximum value of SAR (measured) = 0.589 mW/g



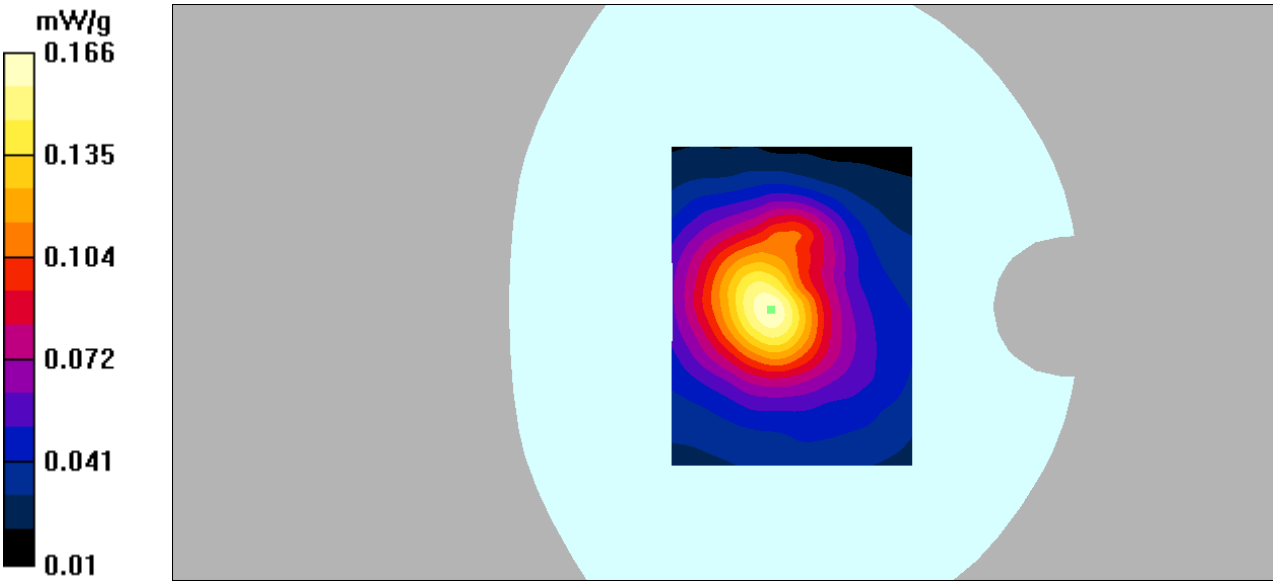
DUT: 3G Smart phone; Type: TS451A;

Communication System: GPRS bands-4slots; Frequency: 836.6 MHz;Duty Cycle: 1:2
Medium parameters used: f = 836.6 MHz; σ = 0.97 mho/m; ε_r = 55.41; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: EX3DV4 – SN7382; ConvF(10.54, 10.54, 10.54); Calibrated: 26/10/2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE – SN772; Calibrated: 25/10/2016
- Phantom: TWIN SAM; Type: Twin SAM V5.0; Serial: 1909
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Hotspot Bottom/GPRS 850 Mid/Area Scan (91x121x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.165 mW/g

Hotspot Bottom/GPRS 850 Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 12.5 V/m; Power Drift = 0.040 dB
Peak SAR (extrapolated) = 0.252 W/kg
SAR(1 g) = 0.153 mW/g; SAR(10 g) = 0.098 mW/g
Maximum value of SAR (measured) = 0.166 mW/g



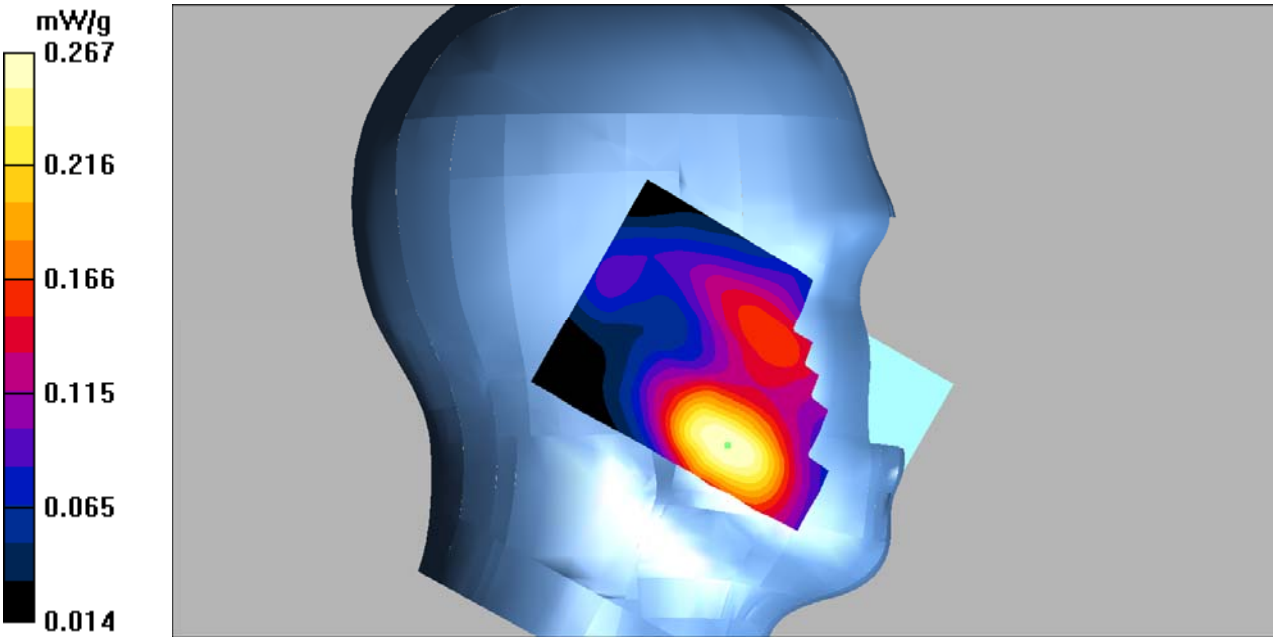
DUT: 3G Smart phone; Type: TS451A;

Communication System: GSM bands; Frequency: 1880 MHz;Duty Cycle: 1:8
Medium parameters used: f = 1880 MHz; σ = 1.42 mho/m; ε_r = 39.57; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY4 Configuration:
- Probe: EX3DV4 – SN7382; ConvF(8.71, 8.71, 8.71); Calibrated: 26/10/2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE – SN772; Calibrated: 25/10/2016
- Phantom: TWIN SAM; Type: Twin SAM V5.0; Serial: 1909
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Left Cheek/GSM 1900 Mid/Area Scan (91x121x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.269 mW/g

Left Cheek/GSM 1900 Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 7.44 V/m; Power Drift = -0.045 dB
Peak SAR (extrapolated) = 0.377 W/kg
SAR(1 g) = 0.249 mW/g; SAR(10 g) = 0.157 mW/g
Maximum value of SAR (measured) = 0.267 mW/g



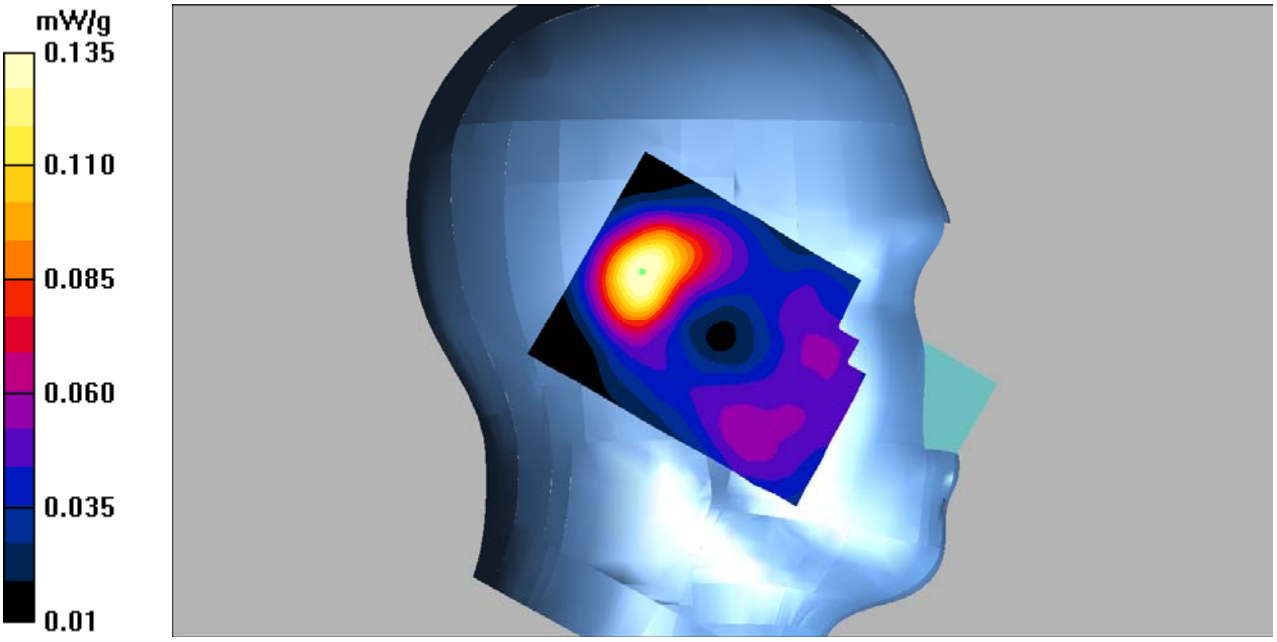
DUT: 3G Smart phone; Type: TS451A;

Communication System: GSM bands; Frequency: 1880 MHz;Duty Cycle: 1:8
Medium parameters used: f = 1880 MHz; σ = 1.42 mho/m; ε_r = 39.57; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY4 Configuration:
- Probe: EX3DV4 – SN7382; ConvF(8.71, 8.71, 8.71); Calibrated: 26/10/2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE – SN772; Calibrated: 25/10/2016
- Phantom: TWIN SAM; Type: Twin SAM V5.0; Serial: 1909
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Left Tilt/GSM 1900 Mid/Area Scan (91x121x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.141 mW/g

Left Tilt/GSM 1900 Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.72 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.197 W/kg
SAR(1 g) = 0.124 mW/g; SAR(10 g) = 0.073 mW/g
Maximum value of SAR (measured) = 0.135 mW/g



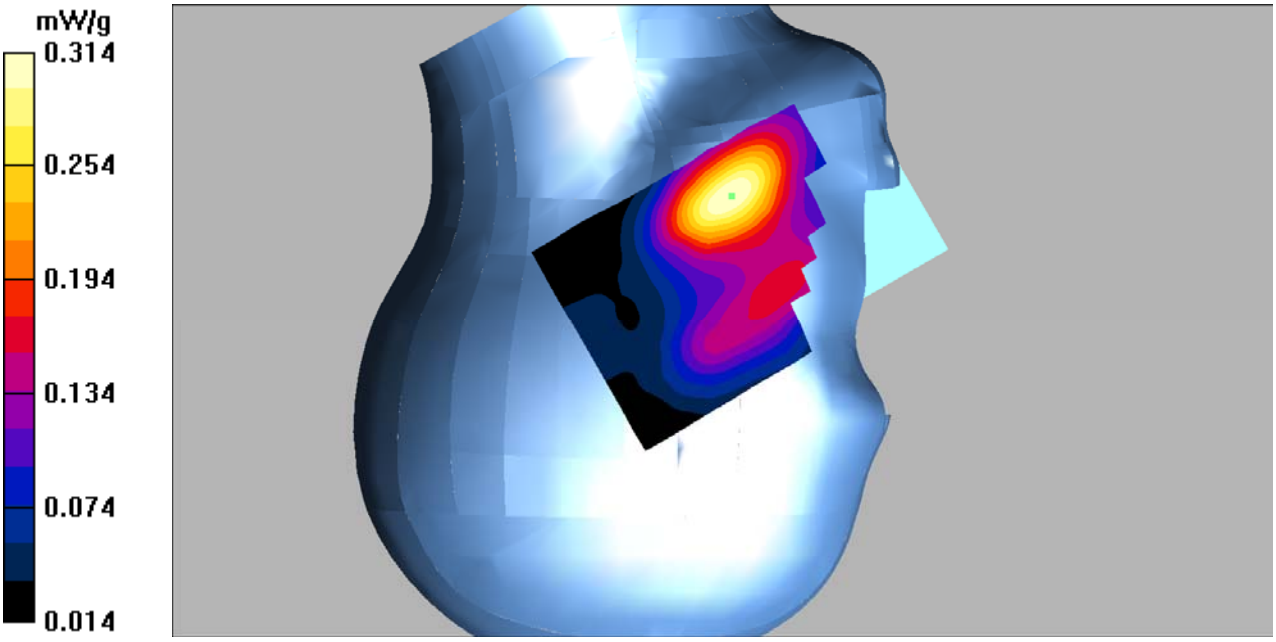
DUT: 3G Smart phone; Type: TS451A;

Communication System: GSM bands; Frequency: 1880 MHz;Duty Cycle: 1:8
Medium parameters used: f = 1880 MHz; σ = 1.42 mho/m; ε_r = 39.57; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY4 Configuration:
- Probe: EX3DV4 – SN7382; ConvF(8.71, 8.71, 8.71); Calibrated: 26/10/2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE – SN772; Calibrated: 25/10/2016
- Phantom: TWIN SAM; Type: Twin SAM V5.0; Serial: 1909
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Right Cheek/GSM 1900 Mid/Area Scan (91x121x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.320 mW/g

Right Cheek/GSM 1900 Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 5.97 V/m; Power Drift = 0.147 dB
Peak SAR (extrapolated) = 0.480 W/kg
SAR(1 g) = 0.290 mW/g; SAR(10 g) = 0.173 mW/g
Maximum value of SAR (measured) = 0.314 mW/g



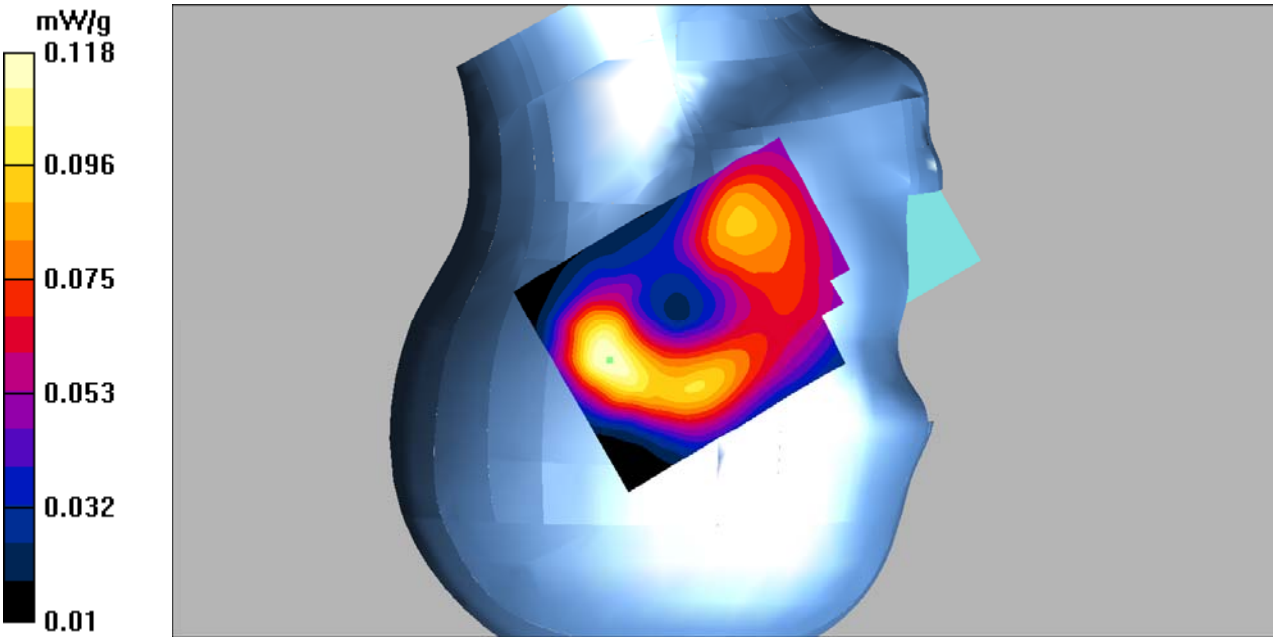
DUT: 3G Smart phone; Type: TS451A;

Communication System: GSM bands; Frequency: 1880 MHz;Duty Cycle: 1:8
Medium parameters used: f = 1880 MHz; σ = 1.42 mho/m; ε_r = 39.57; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY4 Configuration:
- Probe: EX3DV4 – SN7382; ConvF(8.71, 8.71, 8.71); Calibrated: 26/10/2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE – SN772; Calibrated: 25/10/2016
- Phantom: TWIN SAM; Type: Twin SAM V5.0; Serial: 1909
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Right Tilt/GSM 1900 Mid/Area Scan (91x121x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.117 mW/g

Right Tilt/GSM 1900 Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.48 V/m; Power Drift = -0.098 dB
Peak SAR (extrapolated) = 0.174 W/kg
SAR(1 g) = 0.105 mW/g; SAR(10 g) = 0.064 mW/g
Maximum value of SAR (measured) = 0.118 mW/g



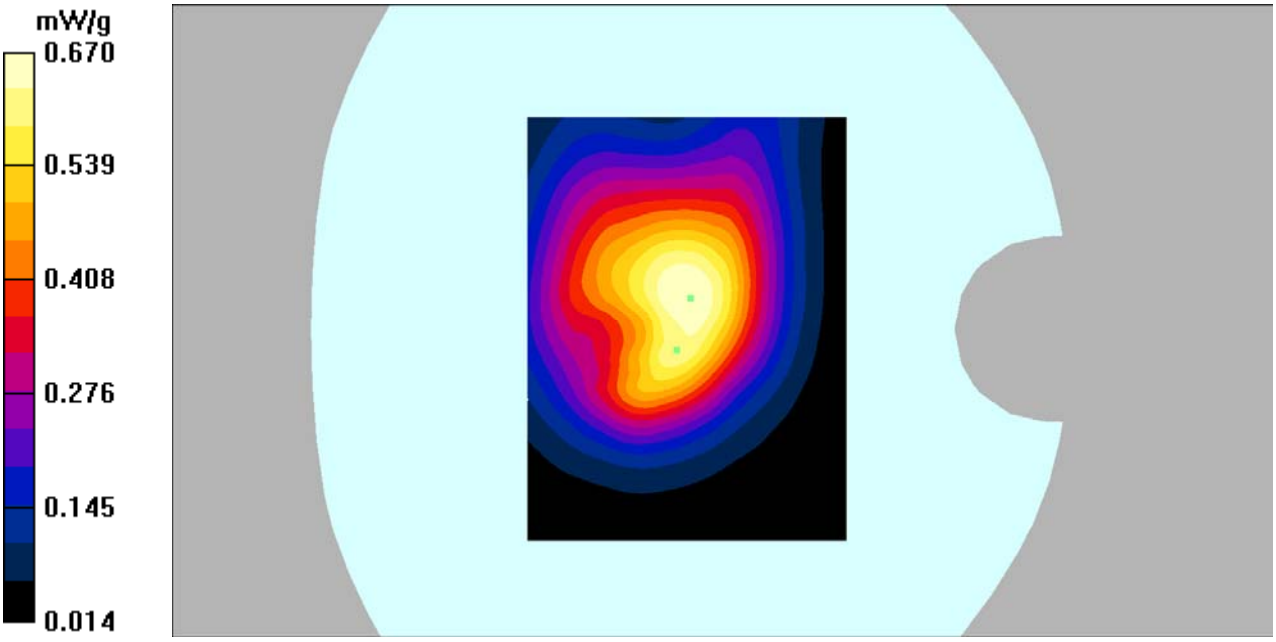
DUT: 3G Smart phone; Type: TS451A;

Communication System: GSM bands; Frequency: 1880 MHz;Duty Cycle: 1:8
Medium parameters used: f = 1880 MHz; σ = 1.52 mho/m; ε_r = 52.64; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: EX3DV4 – SN7382; ConvF(8.31, 8.31, 8.31); Calibrated: 26/10/2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE – SN772; Calibrated: 25/10/2016
- Phantom: TWIN SAM; Type: Twin SAM V5.0; Serial: 1909
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Body-worn/GSM 1900 Mid/Area Scan (91x121x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.678 mW/g

Body-worn/GSM 1900 Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 21.0 V/m; Power Drift = -0.116 dB
Peak SAR (extrapolated) = 1.10 W/kg
SAR(1 g) = 0.620 mW/g; SAR(10 g) = 0.356 mW/g
Maximum value of SAR (measured) = 0.670 mW/g



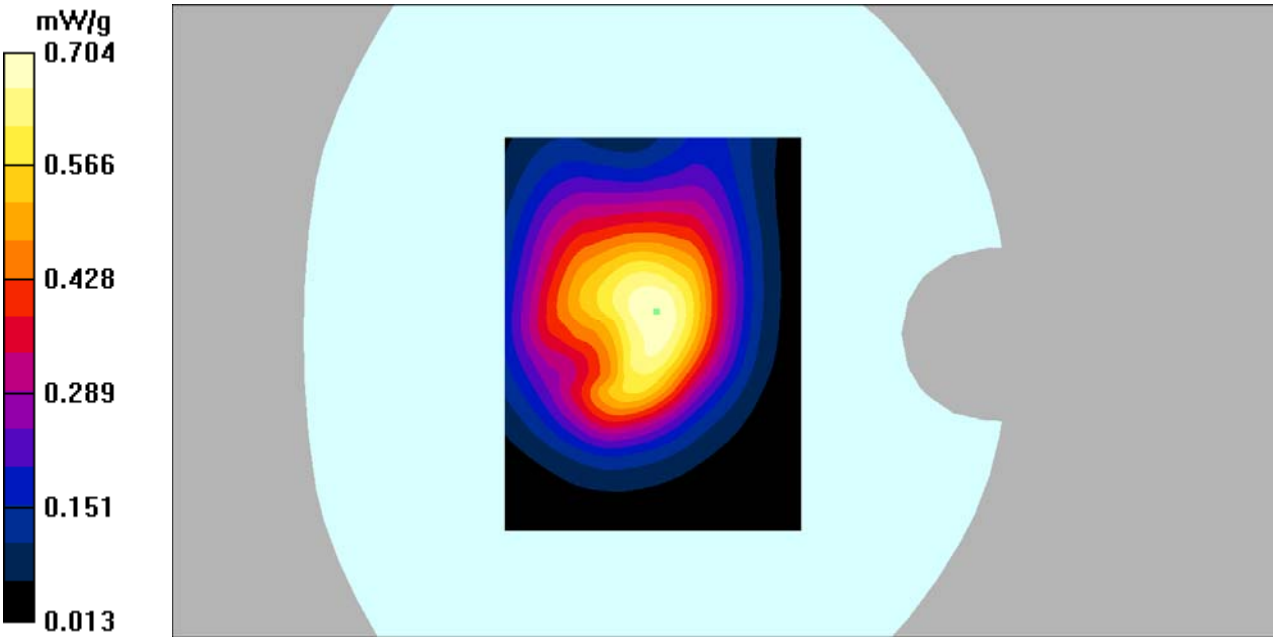
DUT: 3G Smart phone; Type: TS451A;

Communication System: GPRS bands-2slots; Frequency: 1880 MHz;Duty Cycle: 1:4
Medium parameters used: f = 1880 MHz; σ = 1.52 mho/m; ε_r = 52.64; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: EX3DV4 – SN7382; ConvF(8.31, 8.31, 8.31); Calibrated: 26/10/2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE – SN772; Calibrated: 25/10/2016
- Phantom: TWIN SAM; Type: Twin SAM V5.0; Serial: 1909
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Hotspot Back/GPRS 1900 Mid/Area Scan (91x121x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.703 mW/g

Hotspot Back/GPRS 1900 Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 21.6 V/m; Power Drift = -0.079 dB
Peak SAR (extrapolated) = 1.17 W/kg
SAR(1 g) = 0.650 mW/g; SAR(10 g) = 0.372 mW/g
Maximum value of SAR (measured) = 0.704 mW/g



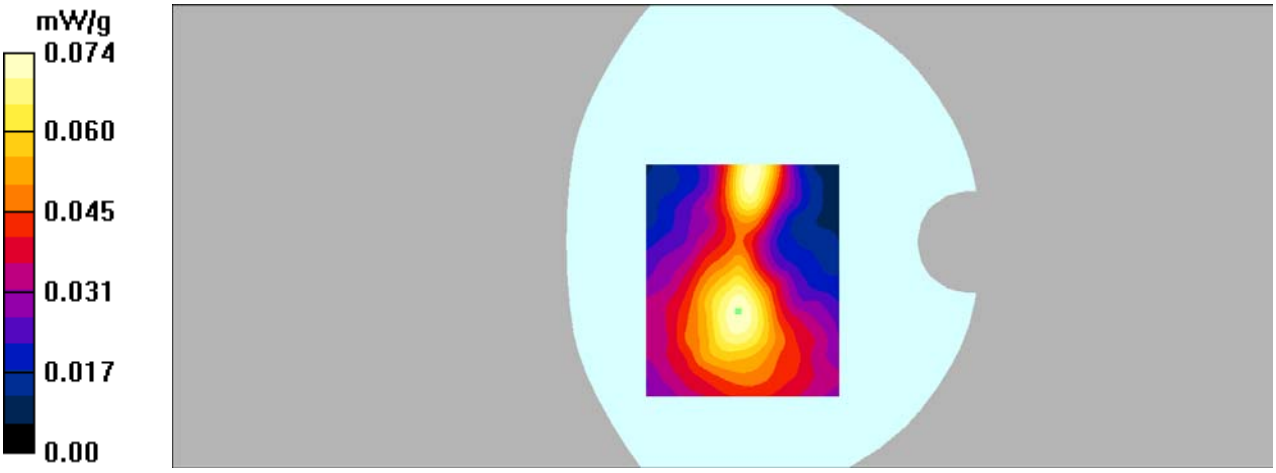
DUT: 3G Smart phone; Type: TS451A;

Communication System: GPRS bands-2slots; Frequency: 1880 MHz;Duty Cycle: 1:4
Medium parameters used: f = 1880 MHz; σ = 1.52 mho/m; ε_r = 52.64; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: EX3DV4 – SN7382; ConvF(8.31, 8.31, 8.31); Calibrated: 26/10/2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE – SN772; Calibrated: 25/10/2016
- Phantom: TWIN SAM; Type: Twin SAM V5.0; Serial: 1909
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Hotspot Left/GPRS 1900 Mid/Area Scan (101x121x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.073 mW/g

Hotspot Left/GPRS 1900 Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.35 V/m; Power Drift = 0.086 dB
Peak SAR (extrapolated) = 0.114 W/kg
SAR(1 g) = 0.069 mW/g; SAR(10 g) = 0.043 mW/g
Maximum value of SAR (measured) = 0.074 mW/g



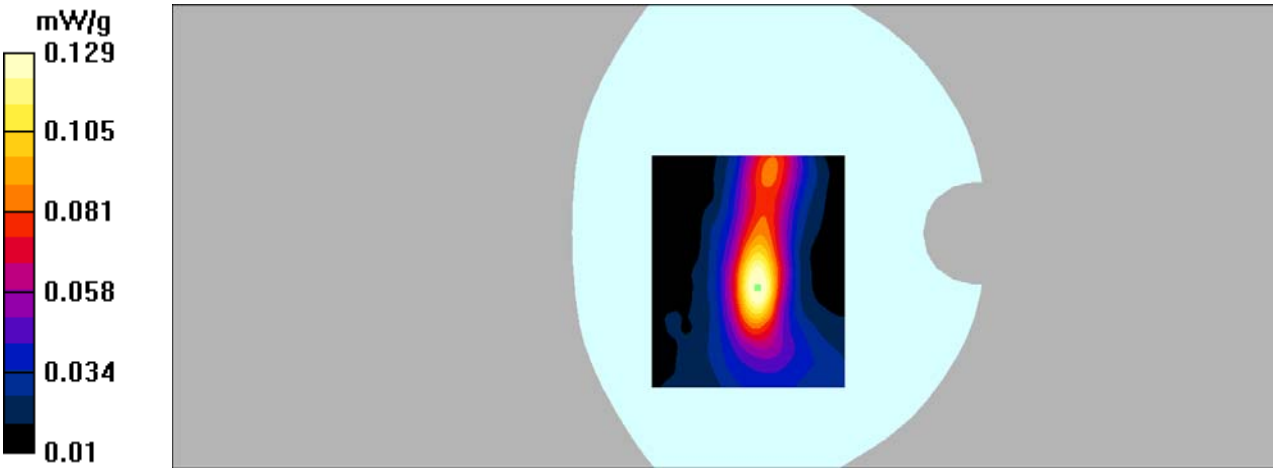
DUT: 3G Smart phone; Type: TS451A;

Communication System: GPRS bands-2slots; Frequency: 1880 MHz;Duty Cycle: 1:4
Medium parameters used: f = 1880 MHz; σ = 1.52 mho/m; ε_r = 52.64; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: EX3DV4 – SN7382; ConvF(8.31, 8.31, 8.31); Calibrated: 26/10/2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE – SN772; Calibrated: 25/10/2016
- Phantom: TWIN SAM; Type: Twin SAM V5.0; Serial: 1909
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Hotspot Right/GPRS 1900 Mid/Area Scan (101x121x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.135 mW/g

Hotspot Right/GPRS 1900 Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.80 V/m; Power Drift = 0.170 dB
Peak SAR (extrapolated) = 0.206 W/kg
SAR(1 g) = 0.118 mW/g; SAR(10 g) = 0.067 mW/g
Maximum value of SAR (measured) = 0.129 mW/g



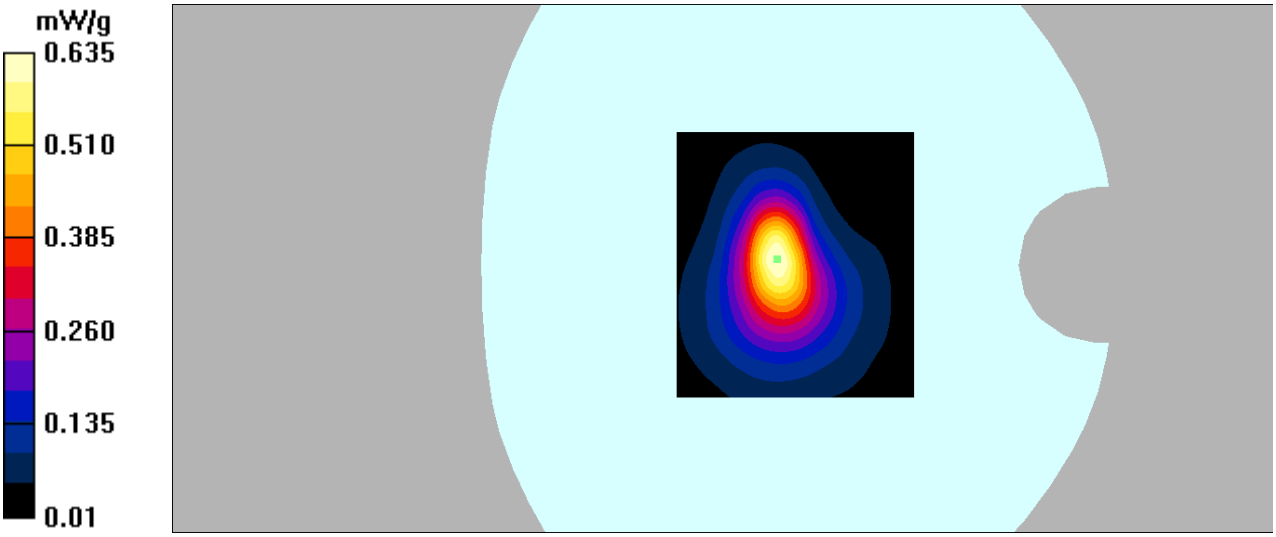
DUT: 3G Smart phone; Type: TS451A;

Communication System: GPRS bands-2slots; Frequency: 1880 MHz;Duty Cycle: 1:4
Medium parameters used: f = 1880 MHz; σ = 1.52 mho/m; ε_r = 52.64; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: EX3DV4 – SN7382; ConvF(8.31, 8.31, 8.31); Calibrated: 26/10/2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE – SN772; Calibrated: 25/10/2016
- Phantom: TWIN SAM; Type: Twin SAM V5.0; Serial: 1909
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Hotspot Bottom/GPRS 1900 Mid/Area Scan (81x91x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.645 mW/g

Hotspot Bottom/GPRS 1900 Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 18.7 V/m; Power Drift = 0.038 dB
Peak SAR (extrapolated) = 1.05 W/kg
SAR(1 g) = 0.562 mW/g; SAR(10 g) = 0.287 mW/g
Maximum value of SAR (measured) = 0.635 mW/g



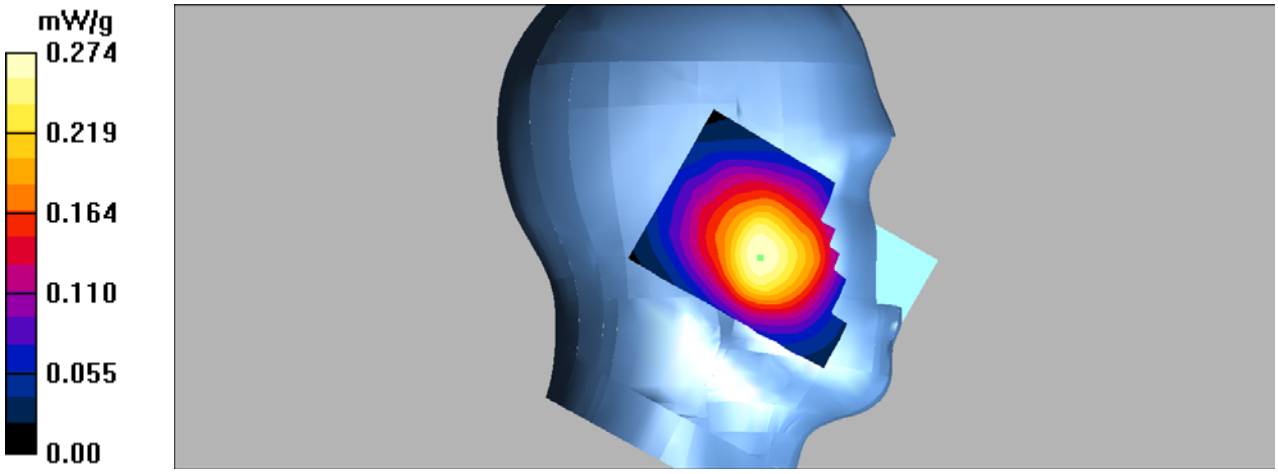
DUT: 3G Smart phone; Type: TS451A;

Communication System: 3G Bands; Frequency: 836.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 836.6 MHz; σ = 0.92 mho/m; ε_r = 41.25; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY4 Configuration:
- Probe: EX3DV4 – SN7382; ConvF(10.50, 10.50, 10.50); Calibrated: 26/10/2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE – SN772; Calibrated: 25/10/2016
- Phantom: TWIN SAM; Type: Twin SAM V5.0; Serial: 1909
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Left Cheek/WCDMA Band 5 Mid/Area Scan (91x121x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.278 mW/g

Left Cheek/WCDMA Band 5 Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.44 V/m; Power Drift = -0.065 dB
Peak SAR (extrapolated) = 0.320 W/kg
SAR(1 g) = 0.263 mW/g; SAR(10 g) = 0.201 mW/g
Maximum value of SAR (measured) = 0.274 mW/g



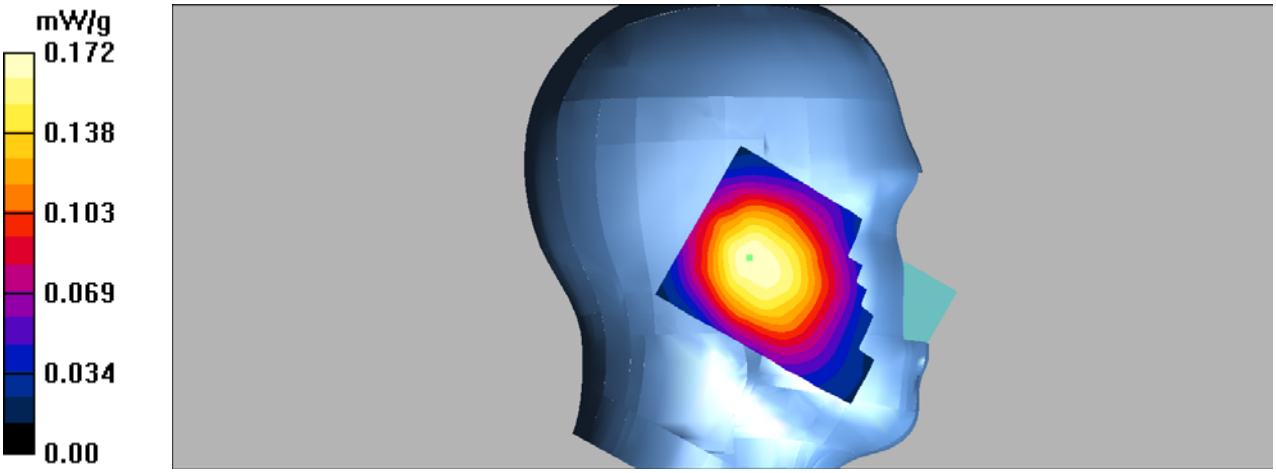
DUT: 3G Smart phone; Type: TS451A;

Communication System: 3G Bands; Frequency: 836.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 836.6 MHz; σ = 0.92 mho/m; ε_r = 41.25; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY4 Configuration:
- Probe: EX3DV4 – SN7382; ConvF(10.50, 10.50, 10.50); Calibrated: 26/10/2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE – SN772; Calibrated: 25/10/2016
- Phantom: TWIN SAM; Type: Twin SAM V5.0; Serial: 1909
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Left Tilt/WCDMA Band 5 Mid/Area Scan (91x121x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.170 mW/g

Left Tilt/WCDMA Band 5 Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.13 V/m; Power Drift = 0.109 dB
Peak SAR (extrapolated) = 0.192 W/kg
SAR(1 g) = 0.164 mW/g; SAR(10 g) = 0.131 mW/g
Maximum value of SAR (measured) = 0.172 mW/g



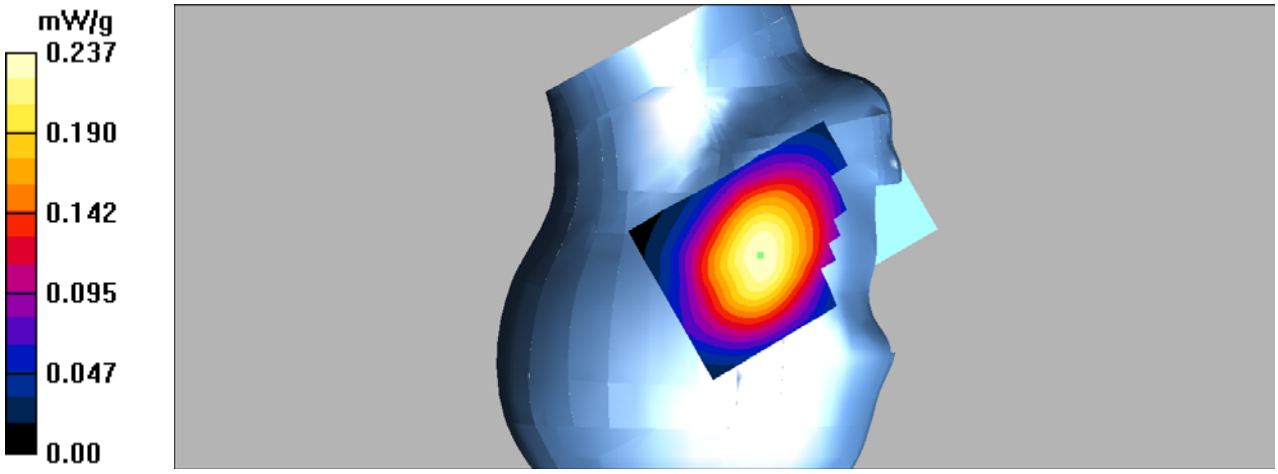
DUT: 3G Smart phone; Type: TS451A;

Communication System: 3G Bands; Frequency: 836.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 836.6 MHz; σ = 0.92 mho/m; ε_r = 41.25; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY4 Configuration:
- Probe: EX3DV4 – SN7382; ConvF(10.50, 10.50, 10.50); Calibrated: 26/10/2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE – SN772; Calibrated: 25/10/2016
- Phantom: TWIN SAM; Type: Twin SAM V5.0; Serial: 1909
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Right Cheek/WCDMA Band 5 Mid/Area Scan (91x121x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.236 mW/g

Right Cheek/WCDMA Band 5 Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 7.70 V/m; Power Drift = 0.117 dB
Peak SAR (extrapolated) = 0.268 W/kg
SAR(1 g) = 0.226 mW/g; SAR(10 g) = 0.177 mW/g
Maximum value of SAR (measured) = 0.237 mW/g



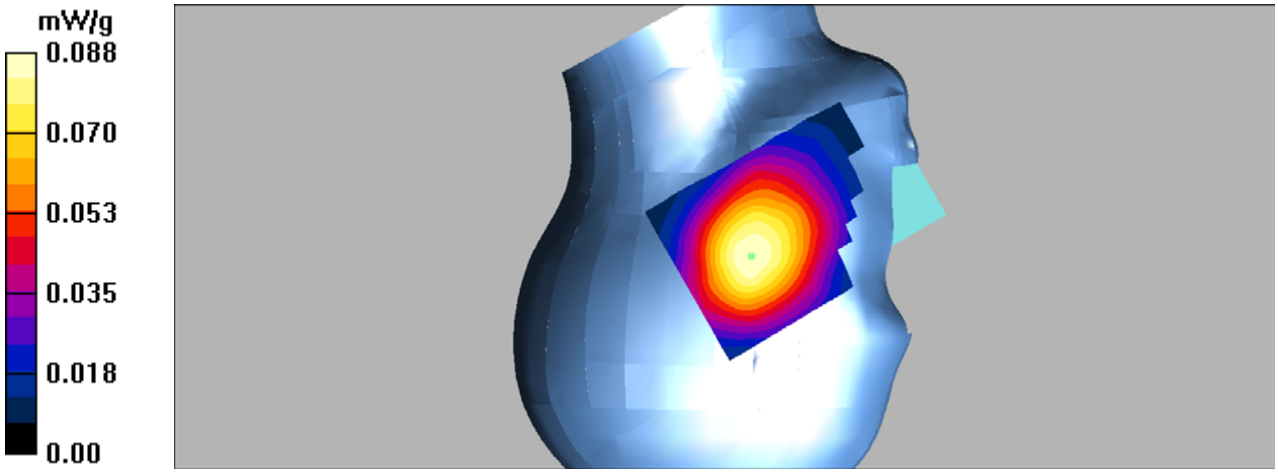
DUT: 3G Smart phone; Type: TS451A;

Communication System: 3G Bands; Frequency: 836.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 836.6 MHz; σ = 0.92 mho/m; ε_r = 41.25; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY4 Configuration:
- Probe: EX3DV4 – SN7382; ConvF(10.50, 10.50, 10.50); Calibrated: 26/10/2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE – SN772; Calibrated: 25/10/2016
- Phantom: TWIN SAM; Type: Twin SAM V5.0; Serial: 1909
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Right Tilt/WCDMA Band 5 Mid/Area Scan (91x121x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.088 mW/g

Right Tilt/WCDMA Band 5 Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.25 V/m; Power Drift = 0.198 dB
Peak SAR (extrapolated) = 0.096 W/kg
SAR(1 g) = 0.084 mW/g; SAR(10 g) = 0.067 mW/g
Maximum value of SAR (measured) = 0.088 mW/g



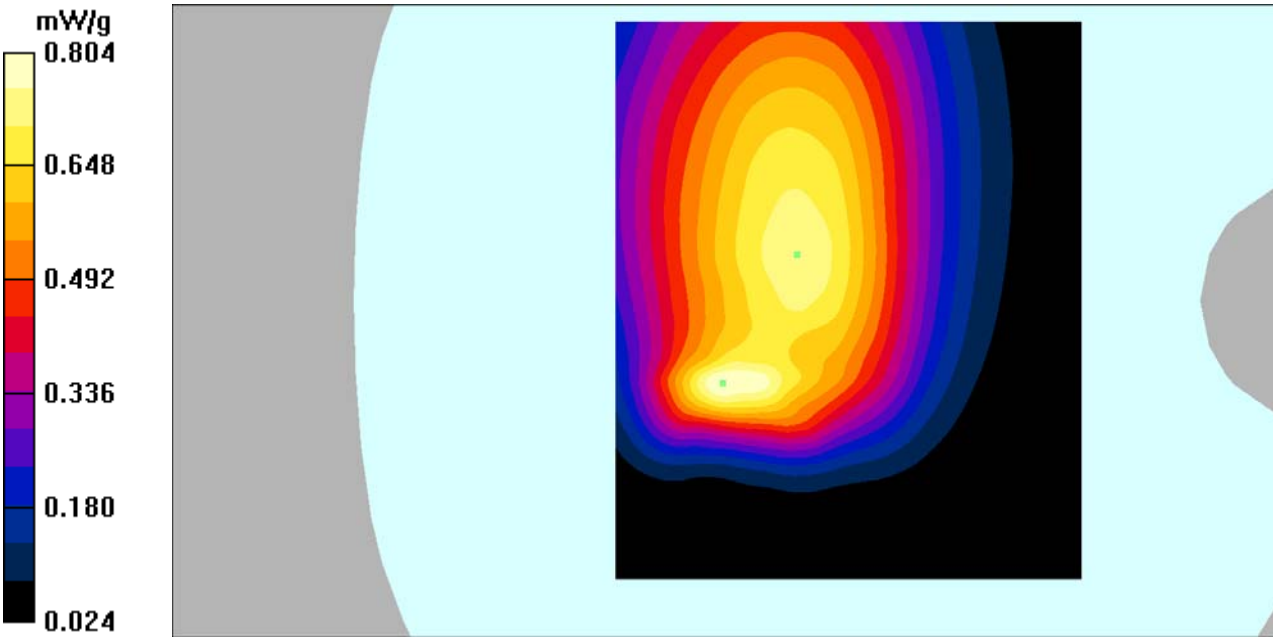
DUT: 3G Smart phone; Type: TS451A;

Communication System: 3G Bands; Frequency: 826.4 MHz;Duty Cycle: 1:1
Medium parameters used: f = 826.4 MHz; σ = 0.99 mho/m; ε_r = 56; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: EX3DV4 – SN7382; ConvF(10.54, 10.54, 10.54); Calibrated: 26/10/2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE – SN772; Calibrated: 25/10/2016
- Phantom: TWIN SAM; Type: Twin SAM V5.0; Serial: 1909
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Hotspot Back/WCDMA Band 5 Low/Area Scan (101x121x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.807 mW/g

Hotspot Back/WCDMA Band 5 Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 25.9 V/m; Power Drift = 0.032 dB
Peak SAR (extrapolated) = 1.36 W/kg
SAR(1 g) = 0.717 mW/g; SAR(10 g) = 0.429 mW/g
Maximum value of SAR (measured) = 0.804 mW/g



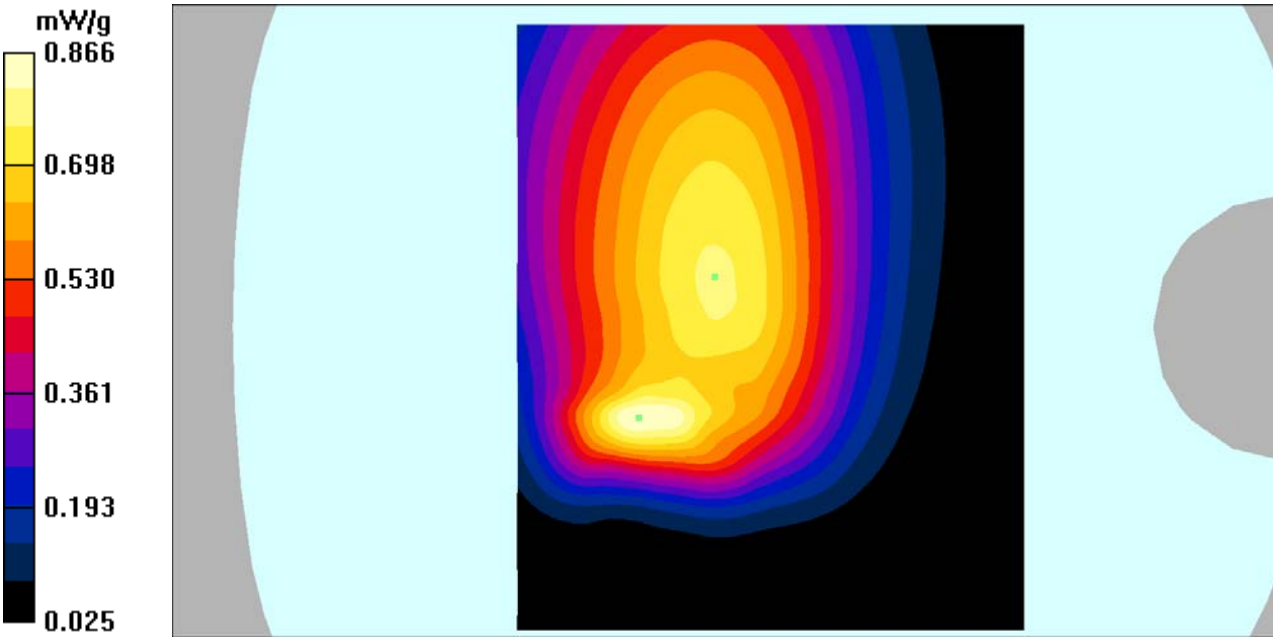
DUT: 3G Smart phone; Type: TS451A;

Communication System: 3G Bands; Frequency: 836.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 836.6 MHz; σ = 0.97 mho/m; ε_r = 55.41; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: EX3DV4 – SN7382; ConvF(10.54, 10.54, 10.54); Calibrated: 26/10/2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE – SN772; Calibrated: 25/10/2016
- Phantom: TWIN SAM; Type: Twin SAM V5.0; Serial: 1909
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Hotspot Back/WCDMA Band 5 Mid/Area Scan (101x121x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.861 mW/g

Hotspot Back/WCDMA Band 5 Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 26.1 V/m; Power Drift = 0.097 dB
Peak SAR (extrapolated) = 1.47 W/kg
SAR(1 g) = 0.766 mW/g; SAR(10 g) = 0.458 mW/g
Maximum value of SAR (measured) = 0.866 mW/g



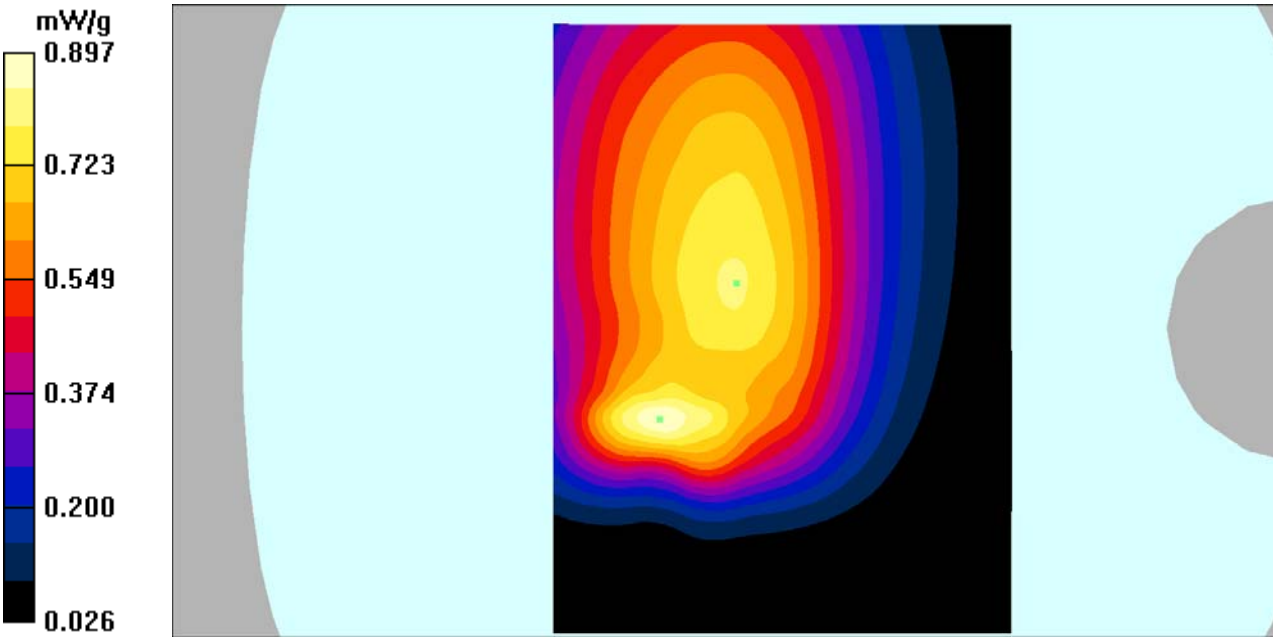
DUT: 3G Smart phone; Type: TS451A;

Communication System: 3G Bands; Frequency: 846.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 846.6 MHz; σ = 0.97 mho/m; ε_r = 55.44; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: EX3DV4 – SN7382; ConvF(10.54, 10.54, 10.54); Calibrated: 26/10/2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE – SN772; Calibrated: 25/10/2016
- Phantom: TWIN SAM; Type: Twin SAM V5.0; Serial: 1909
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Hotspot Back/WCDMA Band 5 High/Area Scan (91x121x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.899 mW/g

Hotspot Back/WCDMA Band 5 High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 26.6 V/m; Power Drift = -0.00 dB
Peak SAR (extrapolated) = 1.51 W/kg
SAR(1 g) = 0.787 mW/g; SAR(10 g) = 0.469 mW/g
Maximum value of SAR (measured) = 0.897 mW/g



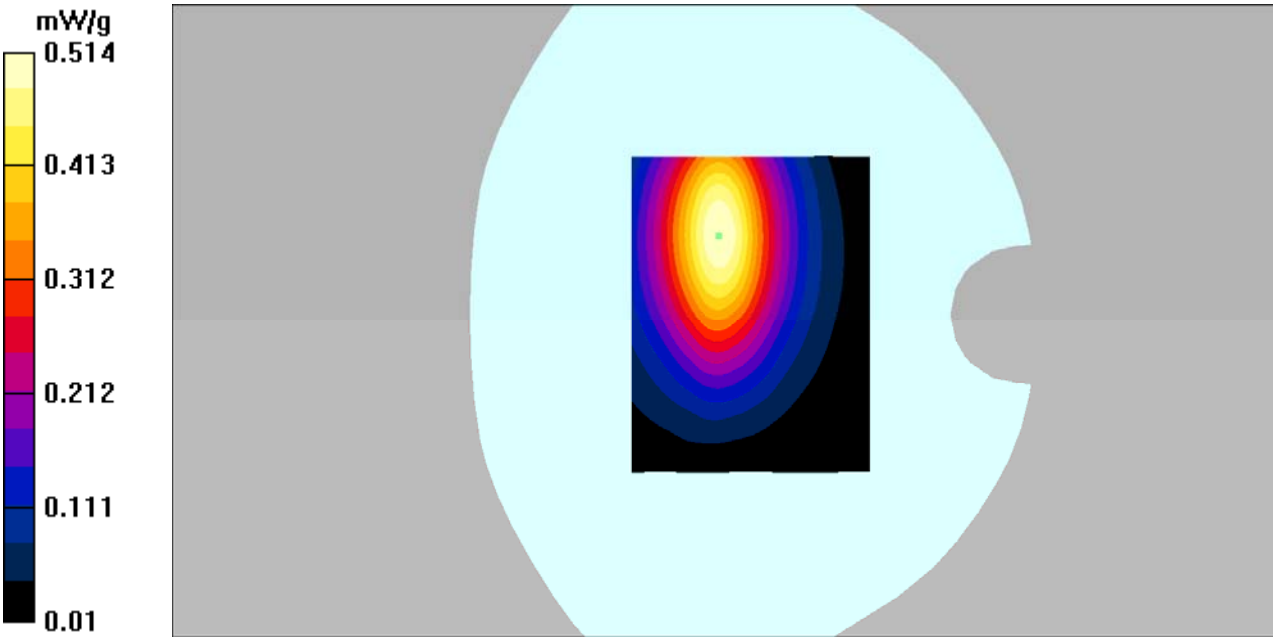
DUT: 3G Smart phone; Type: TS451A;

Communication System: 3G Bands; Frequency: 836.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 836.6 MHz; σ = 0.97 mho/m; ε_r = 55.41; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: EX3DV4 – SN7382; ConvF(10.54, 10.54, 10.54); Calibrated: 26/10/2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE – SN772; Calibrated: 25/10/2016
- Phantom: TWIN SAM; Type: Twin SAM V5.0; Serial: 1909
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Hotspot Left/WCDMA Band 5 Mid/Area Scan (91x121x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.513 mW/g

Hotspot Left/WCDMA Band 5 Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 17.2 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.674 W/kg
SAR(1 g) = 0.478 mW/g; SAR(10 g) = 0.327 mW/g
Maximum value of SAR (measured) = 0.514 mW/g



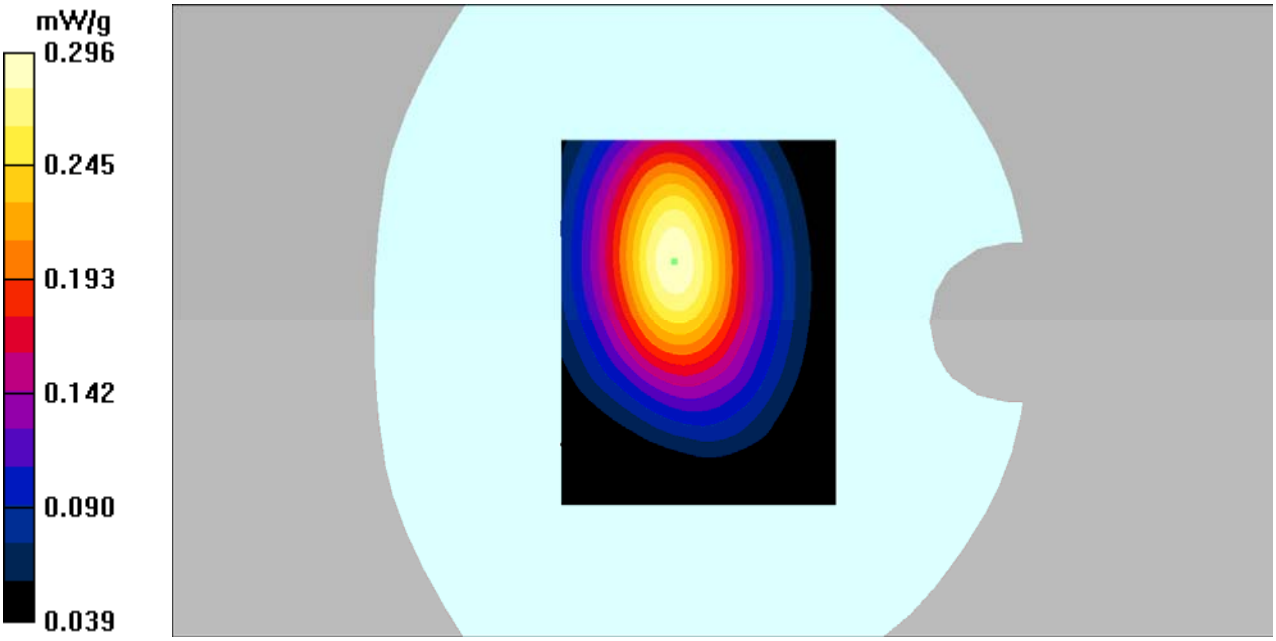
DUT: 3G Smart phone; Type: TS451A;

Communication System: 3G Bands; Frequency: 836.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 836.6 MHz; σ = 0.97 mho/m; ε_r = 55.41; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: EX3DV4 – SN7382; ConvF(10.54, 10.54, 10.54); Calibrated: 26/10/2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE – SN772; Calibrated: 25/10/2016
- Phantom: TWIN SAM; Type: Twin SAM V5.0; Serial: 1909
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Hotspot Right/WCDMA Band 5 Mid/Area Scan (91x121x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.293 mW/g

Hotspot Right/WCDMA Band 5 Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 16.3 V/m; Power Drift = 0.038 dB
Peak SAR (extrapolated) = 0.370 W/kg
SAR(1 g) = 0.276 mW/g; SAR(10 g) = 0.195 mW/g
Maximum value of SAR (measured) = 0.296 mW/g



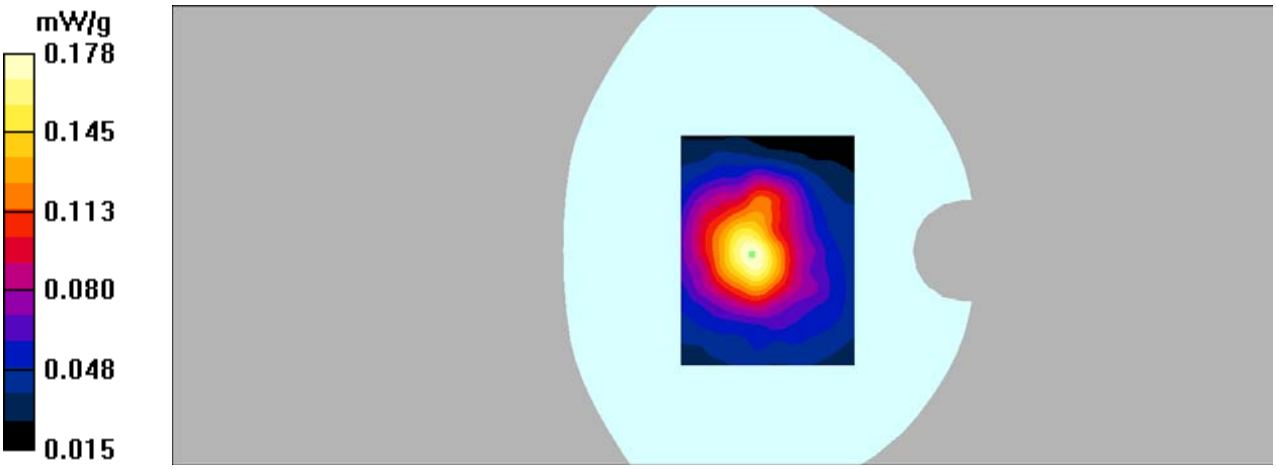
DUT: 3G Smart phone; Type: TS451A;

Communication System: 3G Bands; Frequency: 836.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 836.6 MHz; σ = 0.97 mho/m; ε_r = 55.41; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: EX3DV4 – SN7382; ConvF(10.54, 10.54, 10.54); Calibrated: 26/10/2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE – SN772; Calibrated: 25/10/2016
- Phantom: TWIN SAM; Type: Twin SAM V5.0; Serial: 1909
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Hotspot Bottom/WCDMA Band 5 Mid/Area Scan (91x121x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.180 mW/g

Hotspot Bottom/WCDMA Band 5 Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.98 V/m; Power Drift = 0.078 dB
Peak SAR (extrapolated) = 0.274 W/kg
SAR(1 g) = 0.167 mW/g; SAR(10 g) = 0.109 mW/g
Maximum value of SAR (measured) = 0.178 mW/g



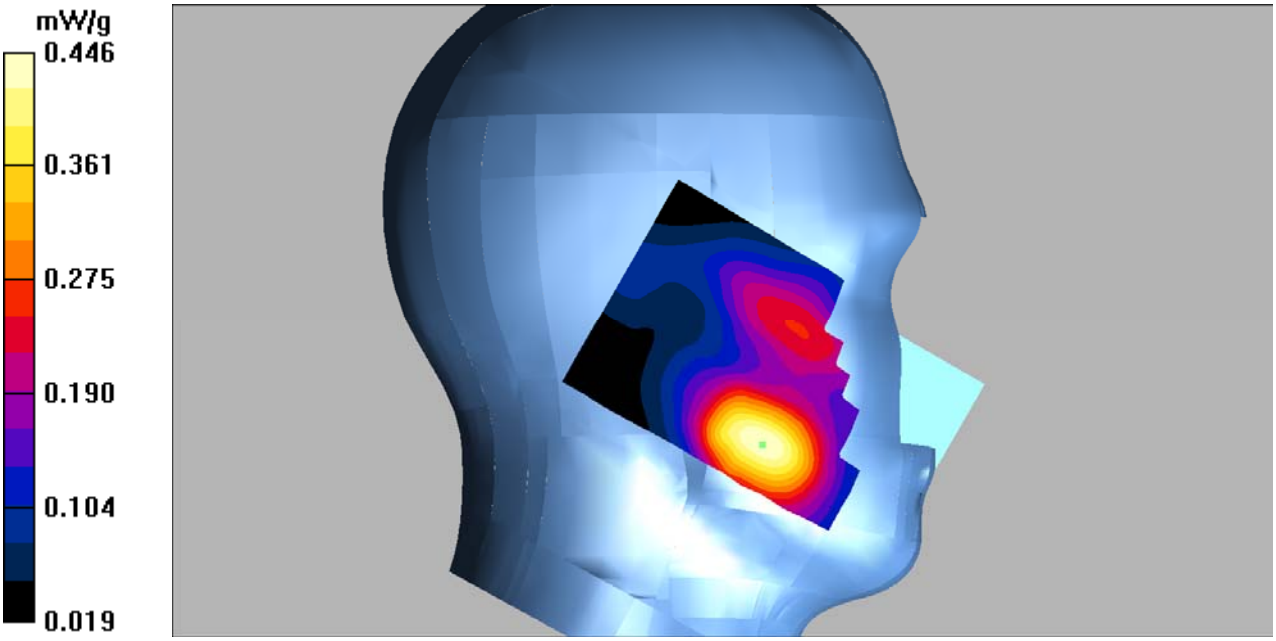
DUT: 3G Smart phone; Type: TS451A;

Communication System: 3G Bands; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.42 mho/m; ε_r = 39.57; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY4 Configuration:
- Probe: EX3DV4 – SN7382; ConvF(8.71, 8.71, 8.71); Calibrated: 26/10/2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE – SN772; Calibrated: 25/10/2016
- Phantom: TWIN SAM; Type: Twin SAM V5.0; Serial: 1909
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Left Cheek/WCDMA Band 2 Mid/Area Scan (91x121x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.449 mW/g

Left Cheek/WCDMA Band 2 Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 7.88 V/m; Power Drift = 0.128 dB
Peak SAR (extrapolated) = 0.649 W/kg
SAR(1 g) = 0.416 mW/g; SAR(10 g) = 0.256 mW/g
Maximum value of SAR (measured) = 0.446 mW/g



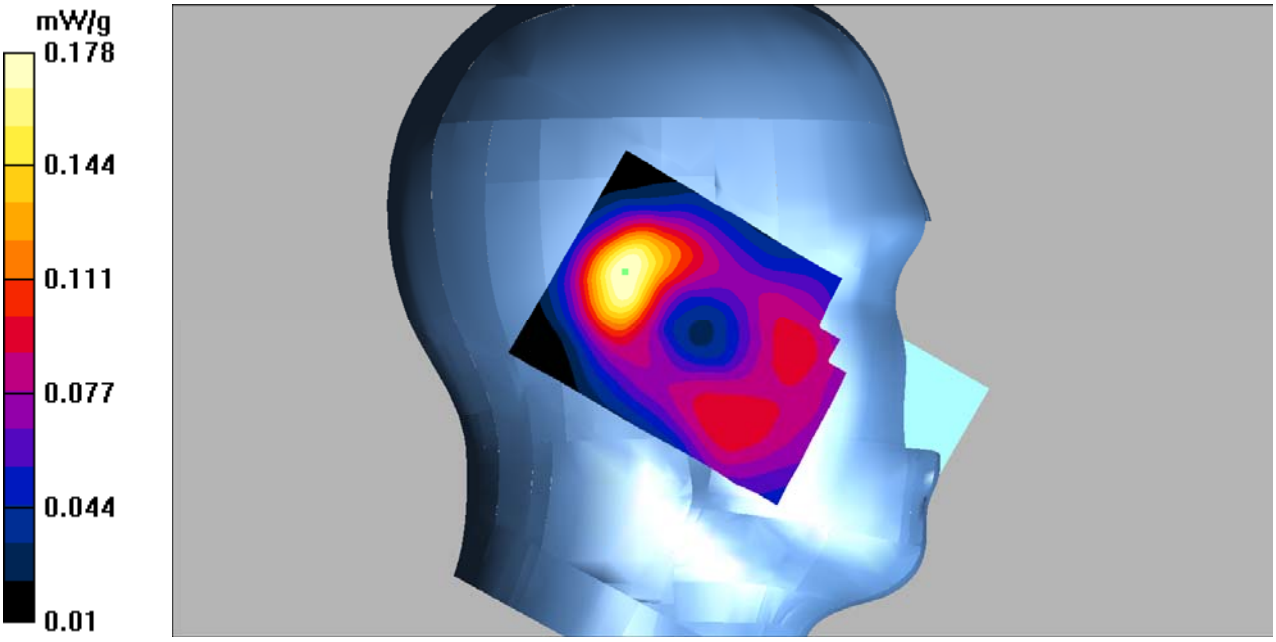
DUT: 3G Smart phone; Type: TS451A;

Communication System: 3G Bands; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.42 mho/m; ε_r = 39.57; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY4 Configuration:
- Probe: EX3DV4 – SN7382; ConvF(8.71, 8.71, 8.71); Calibrated: 26/10/2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE – SN772; Calibrated: 25/10/2016
- Phantom: TWIN SAM; Type: Twin SAM V5.0; Serial: 1909
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Left Tilt/WCDMA Band 2 Mid/Area Scan (91x121x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.183 mW/g

Left Tilt/WCDMA Band 2 Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 11.2 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.265 W/kg
SAR(1 g) = 0.164 mW/g; SAR(10 g) = 0.097 mW/g
Maximum value of SAR (measured) = 0.178 mW/g



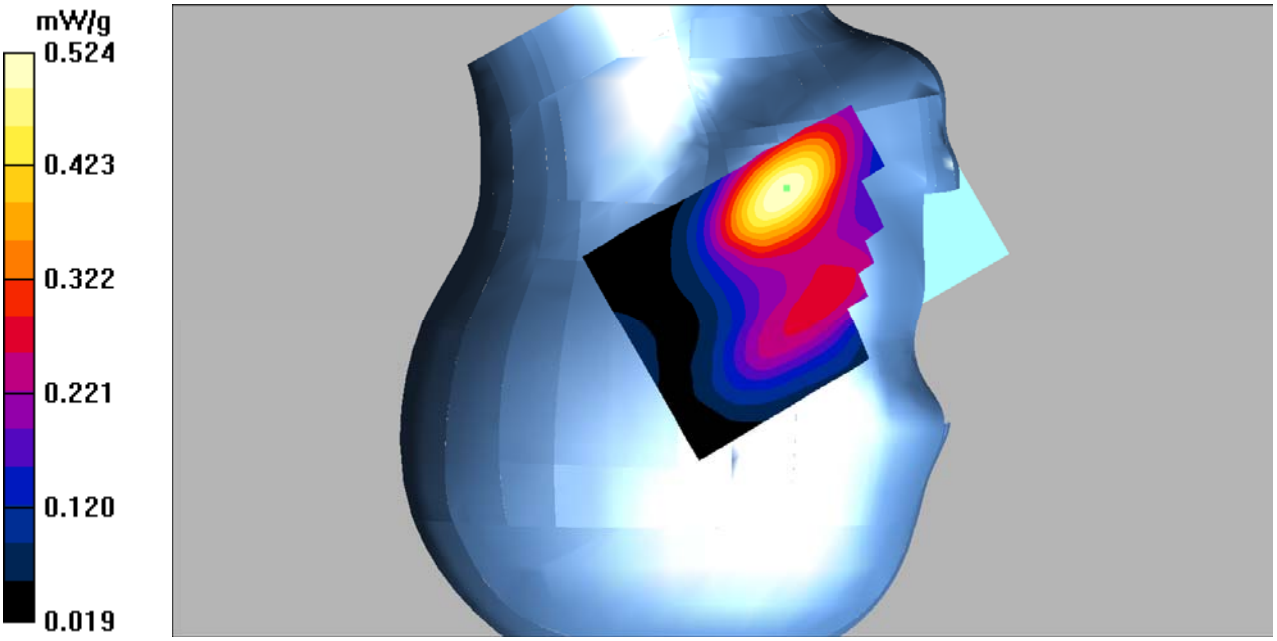
DUT: 3G Smart phone; Type: TS451A;

Communication System: 3G Bands; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.42 mho/m; ε_r = 39.57; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY4 Configuration:
- Probe: EX3DV4 – SN7382; ConvF(8.71, 8.71, 8.71); Calibrated: 26/10/2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE – SN772; Calibrated: 25/10/2016
- Phantom: TWIN SAM; Type: Twin SAM V5.0; Serial: 1909
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Right Cheek/WCDMA Band 2 Mid/Area Scan (91x121x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.524 mW/g

Right Cheek/WCDMA Band 2 Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 7.16 V/m; Power Drift = -0.087 dB
Peak SAR (extrapolated) = 0.787 W/kg
SAR(1 g) = 0.482 mW/g; SAR(10 g) = 0.286 mW/g
Maximum value of SAR (measured) = 0.524 mW/g



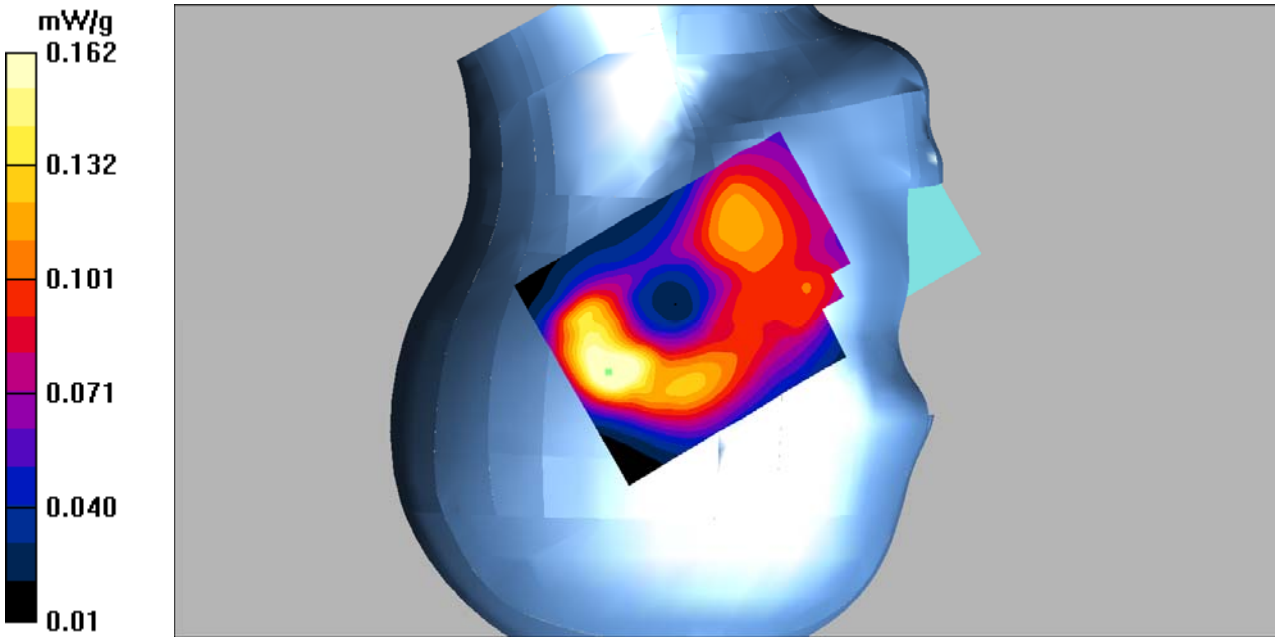
DUT: 3G Smart phone; Type: TS451A;

Communication System: 3G Bands; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.42 mho/m; ε_r = 39.57; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY4 Configuration:
- Probe: EX3DV4 – SN7382; ConvF(8.71, 8.71, 8.71); Calibrated: 26/10/2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE – SN772; Calibrated: 25/10/2016
- Phantom: TWIN SAM; Type: Twin SAM V5.0; Serial: 1909
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Right Tilt/WCDMA Band 2 Mid/Area Scan (91x121x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.191 mW/g

Right Tilt/WCDMA Band 2 Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.09 V/m; Power Drift = -0.126 dB
Peak SAR (extrapolated) = 0.235 W/kg
SAR(1 g) = 0.145 mW/g; SAR(10 g) = 0.088 mW/g
Maximum value of SAR (measured) = 0.162 mW/g



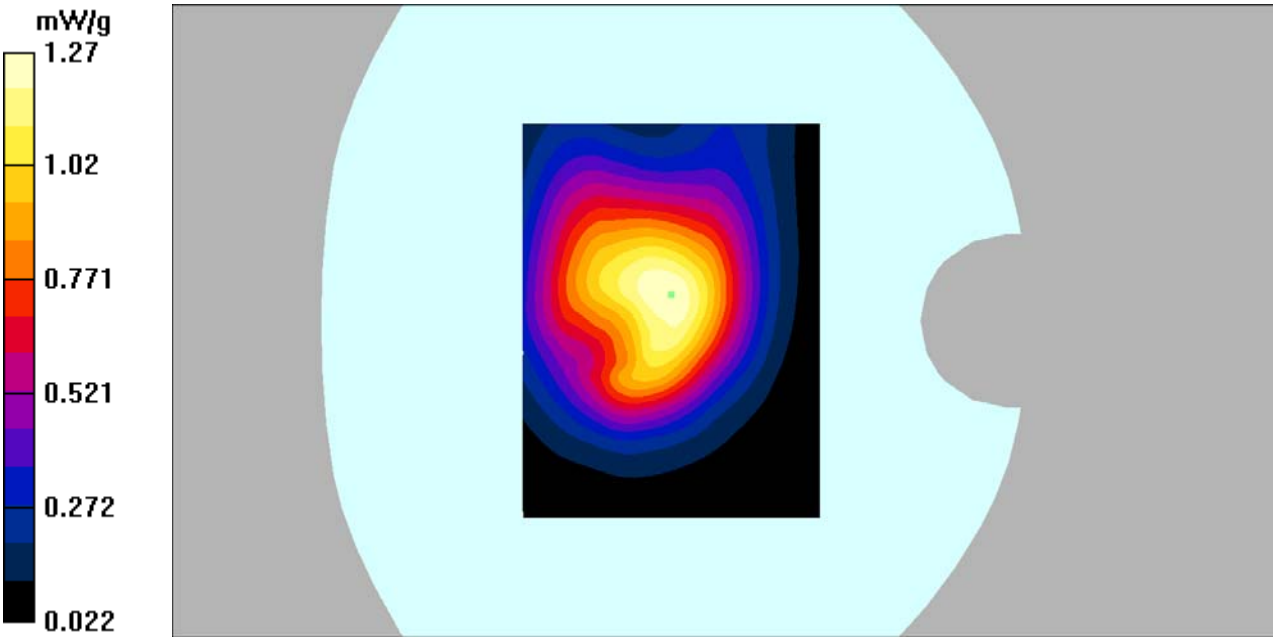
DUT: 3G Smart phone; Type: TS451A;

Communication System: 3G Bands; Frequency: 1852.4 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1852.4 MHz; σ = 1.52 mho/m; ε_r = 53.72; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: EX3DV4 – SN7382; ConvF(8.31, 8.31, 8.31); Calibrated: 26/10/2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE – SN772; Calibrated: 25/10/2016
- Phantom: TWIN SAM; Type: Twin SAM V5.0; Serial: 1909
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Hotspot Back/WCDMA Band 2 Low/Area Scan (91x121x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 1.26 mW/g

Hotspot Back/WCDMA Band 2 Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 29.0 V/m; Power Drift = -0.135 dB
Peak SAR (extrapolated) = 2.08 W/kg
SAR(1 g) = 1.17 mW/g; SAR(10 g) = 0.670 mW/g
Maximum value of SAR (measured) = 1.27 mW/g



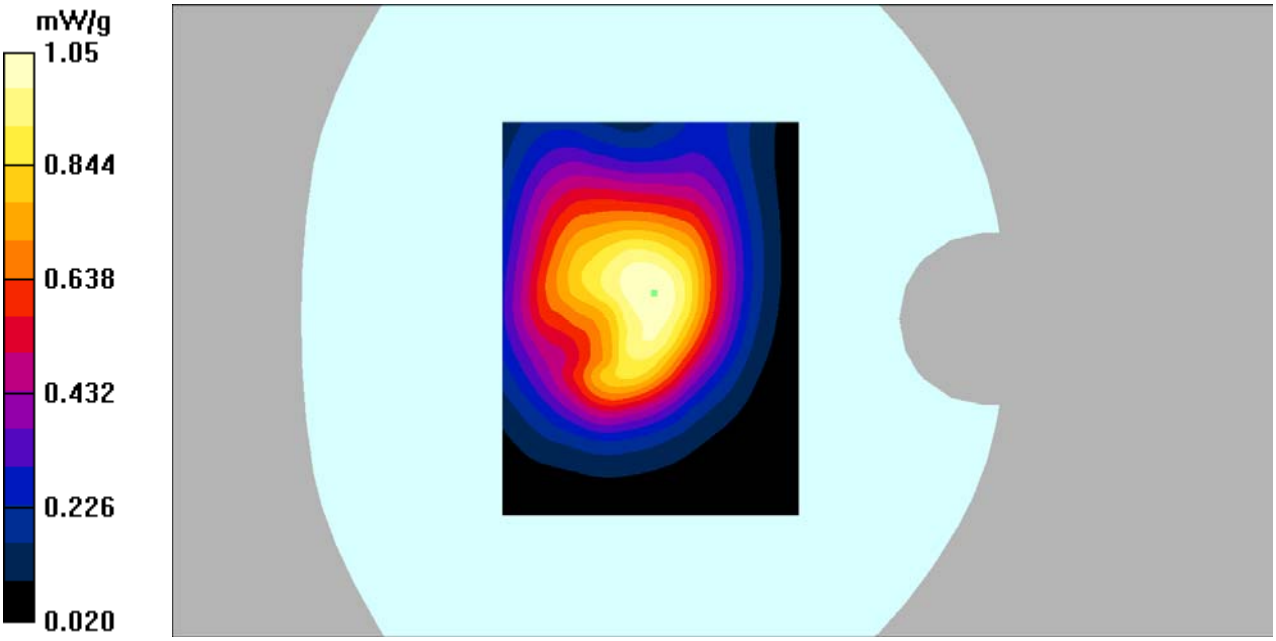
DUT: 3G Smart phone; Type: TS451A;

Communication System: 3G Bands; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.52 mho/m; ε_r = 52.64; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: EX3DV4 – SN7382; ConvF(8.31, 8.31, 8.31); Calibrated: 26/10/2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE – SN772; Calibrated: 25/10/2016
- Phantom: TWIN SAM; Type: Twin SAM V5.0; Serial: 1909
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Hotspot Back/WCDMA Band 2 Mid/Area Scan (91x121x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 1.06 mW/g

Hotspot Back/WCDMA Band 2 Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 26.1 V/m; Power Drift = 0.036 dB
Peak SAR (extrapolated) = 1.77 W/kg
SAR(1 g) = 0.981 mW/g; SAR(10 g) = 0.563 mW/g
Maximum value of SAR (measured) = 1.05 mW/g



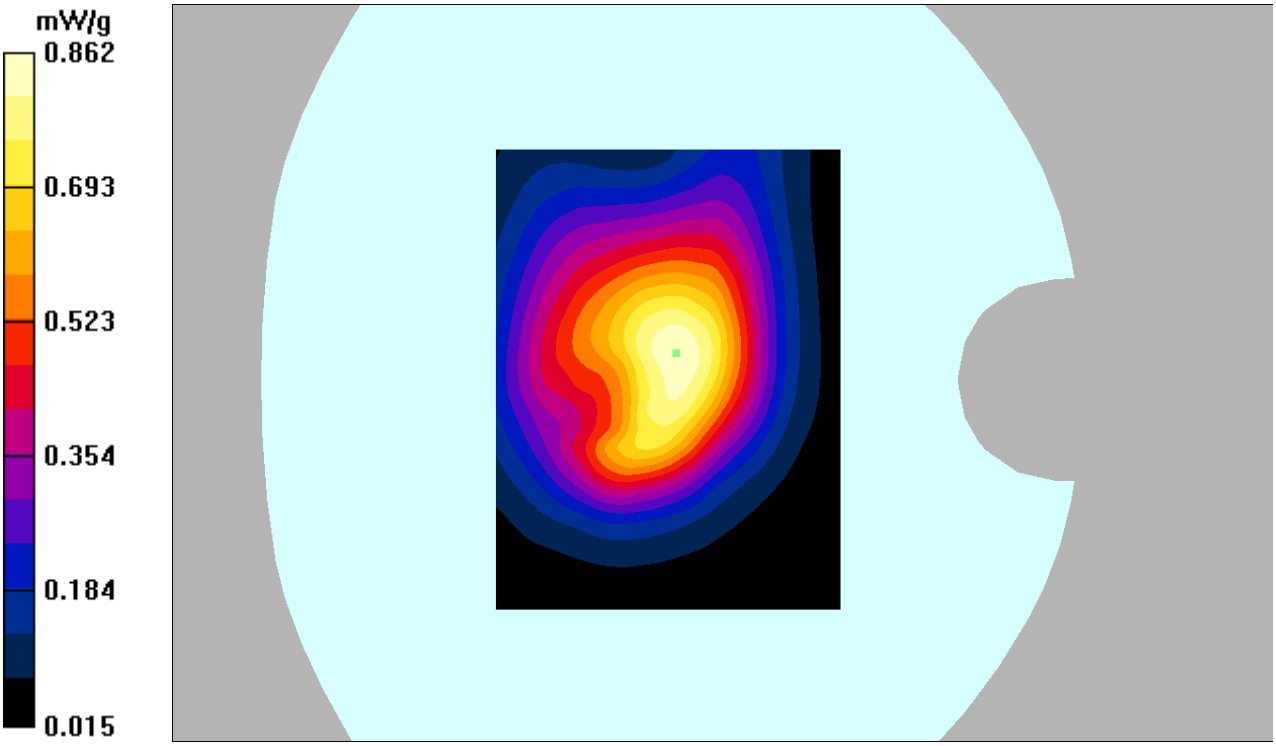
DUT: 3G Smart phone; Type: TS451A;

Communication System: 3G Bands; Frequency: 1907.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1907.6 MHz; σ = 1.51 mho/m; ε_r = 52.56; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: EX3DV4 – SN7382; ConvF(8.31, 8.31, 8.31); Calibrated: 26/10/2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE – SN772; Calibrated: 25/10/2016
- Phantom: TWIN SAM; Type: Twin SAM V5.0; Serial: 1909
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Hotspot Back/WCDMA Band 2 High/Area Scan (91x121x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.854 mW/g

Hotspot Back/WCDMA Band 2 High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 23.8 V/m; Power Drift = -0.150 dB
Peak SAR (extrapolated) = 1.43 W/kg
SAR(1 g) = 0.789 mW/g; SAR(10 g) = 0.446 mW/g
Maximum value of SAR (measured) = 0.862 mW/g



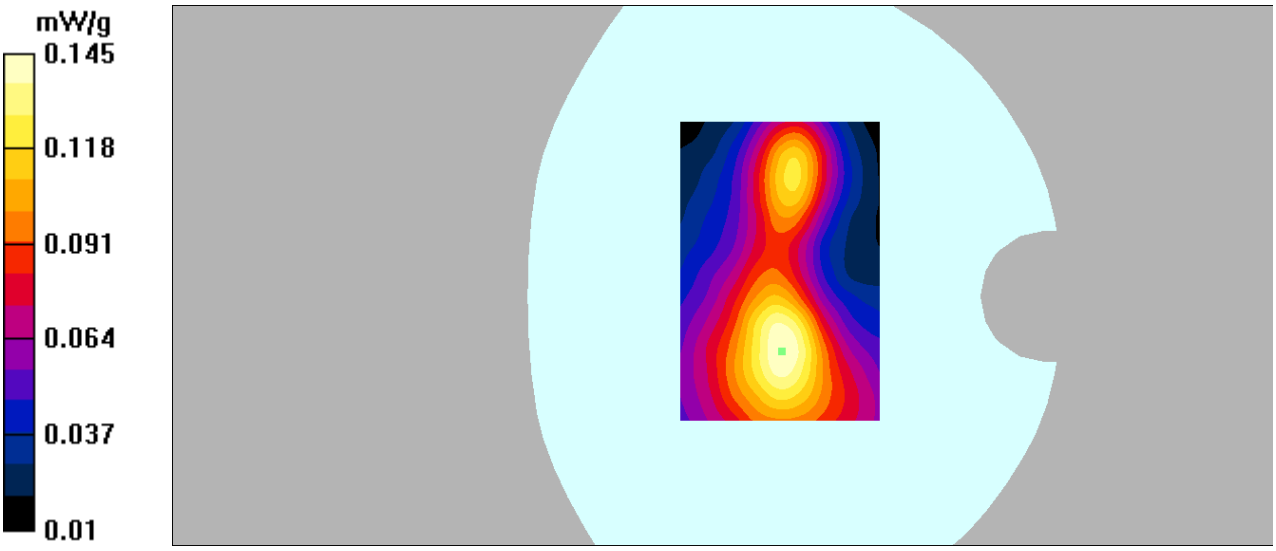
DUT: 3G Smart phone; Type: TS451A;

Communication System: 3G Bands; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.52 mho/m; ε_r = 52.64; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: EX3DV4 – SN7382; ConvF(8.31, 8.31, 8.31); Calibrated: 26/10/2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE – SN772; Calibrated: 25/10/2016
- Phantom: TWIN SAM; Type: Twin SAM V5.0; Serial: 1909
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Hotspot Left/WCDMA Band 2 Mid/Area Scan (81x121x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.144 mW/g

Hotspot Left/WCDMA Band 2 Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.25 V/m; Power Drift = 0.012 dB
Peak SAR (extrapolated) = 0.223 W/kg
SAR(1 g) = 0.134 mW/g; SAR(10 g) = 0.080 mW/g
Maximum value of SAR (measured) = 0.145 mW/g



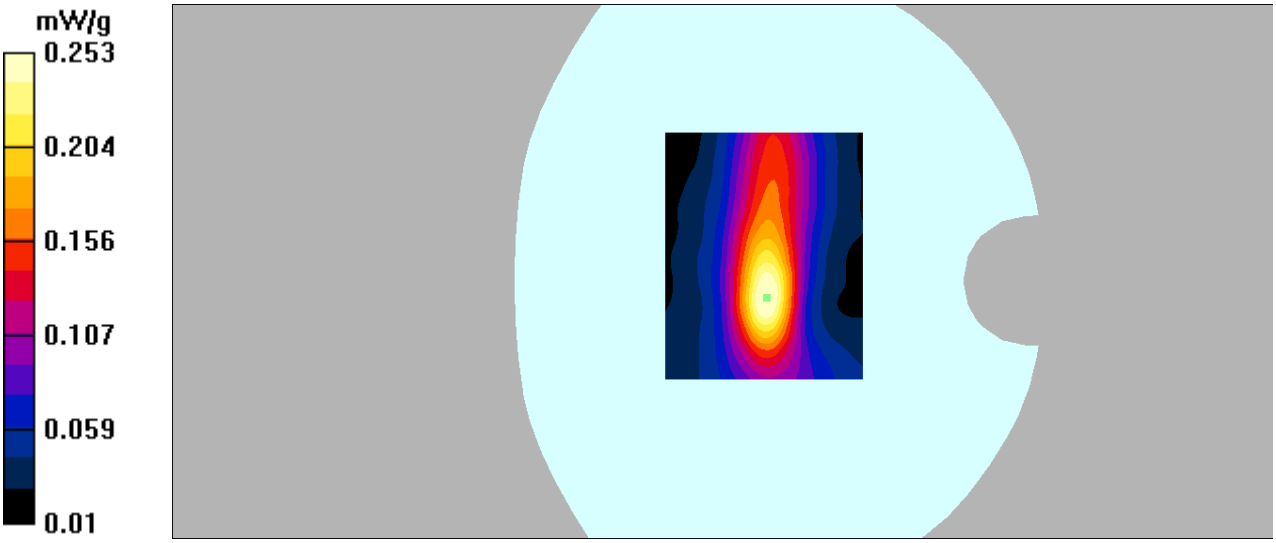
DUT: 3G Smart phone; Type: TS451A;

Communication System: 3G Bands; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.52 mho/m; ε_r = 52.64; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: EX3DV4 – SN7382; ConvF(8.31, 8.31, 8.31); Calibrated: 26/10/2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE – SN772; Calibrated: 25/10/2016
- Phantom: TWIN SAM; Type: Twin SAM V5.0; Serial: 1909
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Hotspot Right/WCDMA Band 2 Mid/Area Scan (81x101x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.260 mW/g

Hotspot Right/WCDMA Band 2 Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 12.4 V/m; Power Drift = -0.190 dB
Peak SAR (extrapolated) = 0.419 W/kg
SAR(1 g) = 0.227 mW/g; SAR(10 g) = 0.121 mW/g
Maximum value of SAR (measured) = 0.253 mW/g



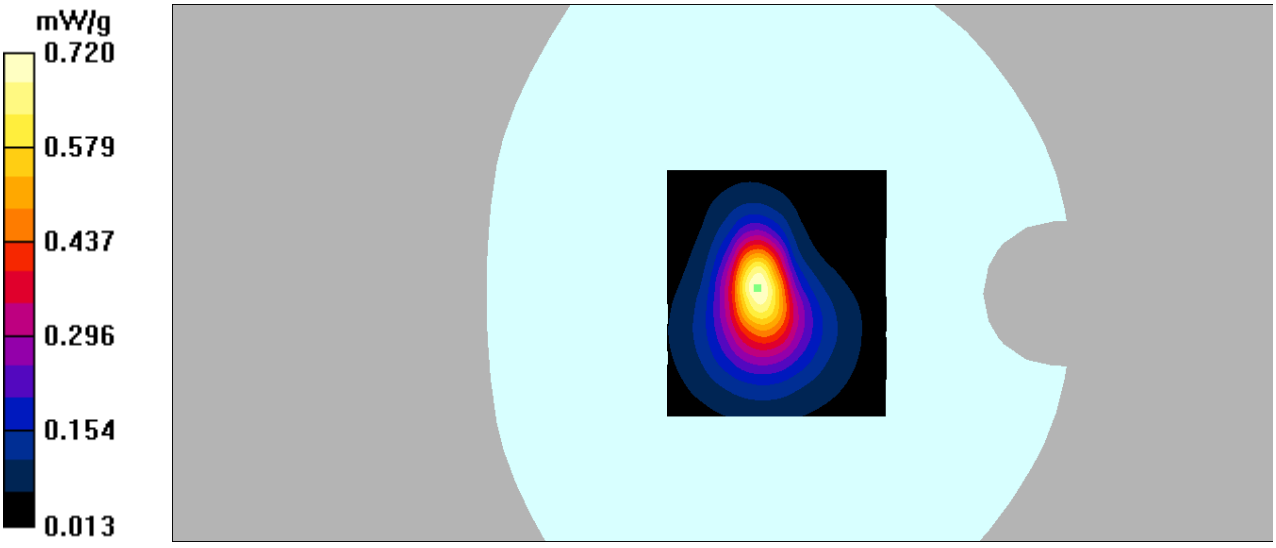
DUT: 3G Smart phone; Type: TS451A;

Communication System: 3G Bands; Frequency: 1852.4 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1852.4 MHz; σ = 1.52 mho/m; ε_r = 53.72; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: EX3DV4 – SN7382; ConvF(8.31, 8.31, 8.31); Calibrated: 26/10/2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE – SN772; Calibrated: 25/10/2016
- Phantom: TWIN SAM; Type: Twin SAM V5.0; Serial: 1909
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Hotspot Bottom/WCDMA Band 2 Low/Area Scan (81x91x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.733 mW/g

Hotspot Bottom/WCDMA Band 2 Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 19.7 V/m; Power Drift = 0.051 dB
Peak SAR (extrapolated) = 1.19 W/kg
SAR(1 g) = 0.632 mW/g; SAR(10 g) = 0.324 mW/g
Maximum value of SAR (measured) = 0.720 mW/g



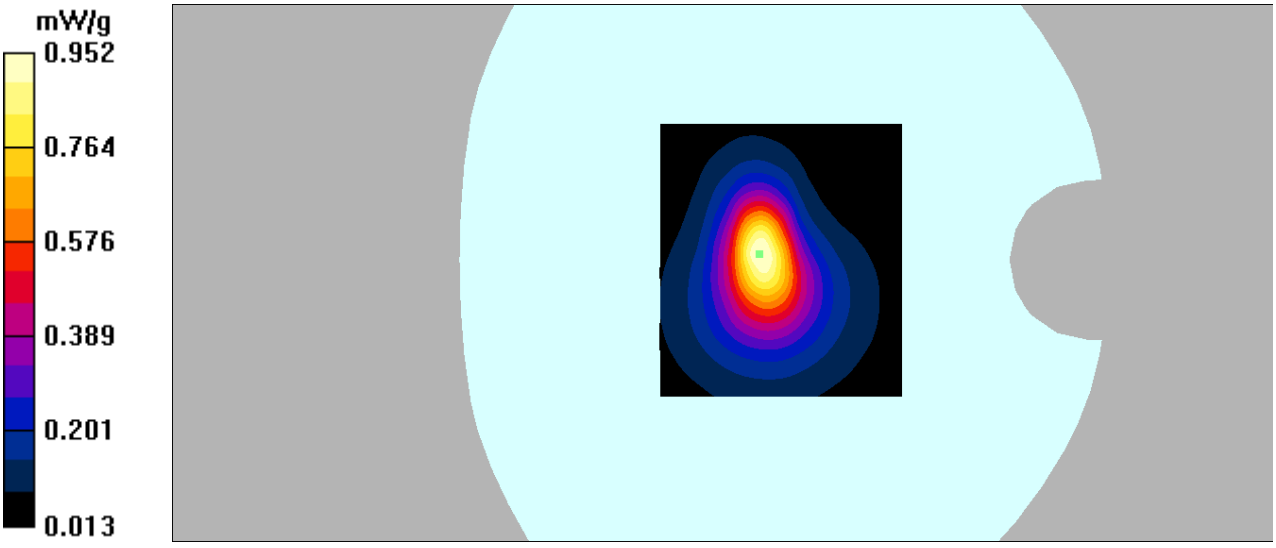
DUT: 3G Smart phone; Type: TS451A;

Communication System: 3G Bands; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.52 mho/m; ε_r = 52.64; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: EX3DV4 – SN7382; ConvF(8.31, 8.31, 8.31); Calibrated: 26/10/2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE – SN772; Calibrated: 25/10/2016
- Phantom: TWIN SAM; Type: Twin SAM V5.0; Serial: 1909
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Hotspot Bottom/WCDMA Band 2 Mid/Area Scan (81x91x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.968 mW/g

Hotspot Bottom/WCDMA Band 2 Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 22.7 V/m; Power Drift = 0.038 dB
Peak SAR (extrapolated) = 1.59 W/kg
SAR(1 g) = 0.846 mW/g; SAR(10 g) = 0.429 mW/g
Maximum value of SAR (measured) = 0.952 mW/g



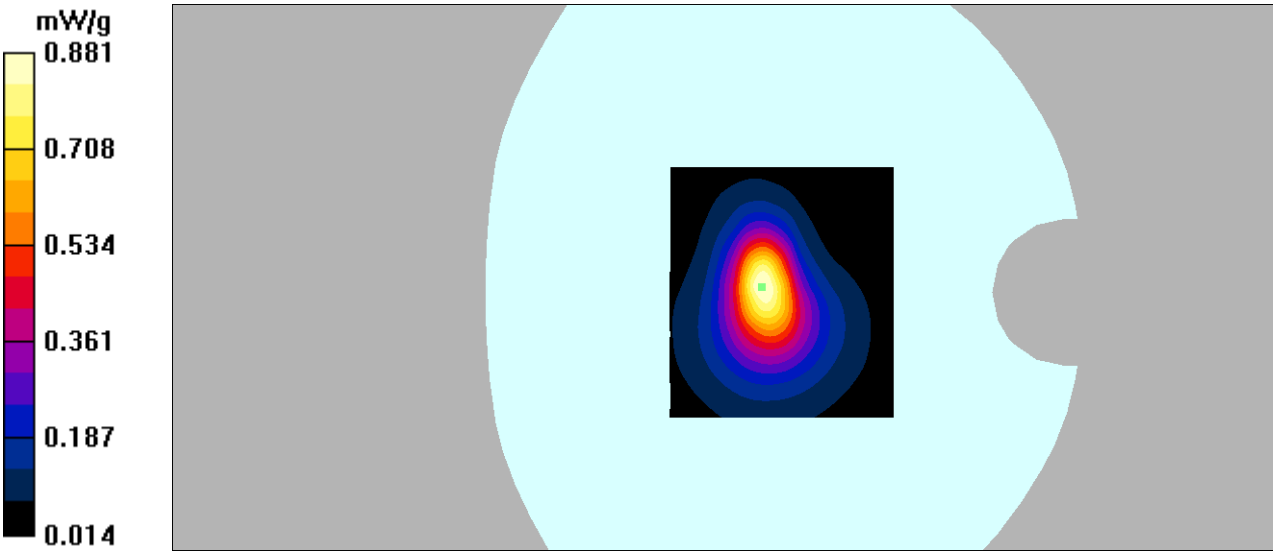
DUT: 3G Smart phone; Type: TS451A;

Communication System: 3G Bands; Frequency: 1907.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1907.6 MHz; σ = 1.51 mho/m; ε_r = 52.56; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: EX3DV4 – SN7382; ConvF(8.31, 8.31, 8.31); Calibrated: 26/10/2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE – SN772; Calibrated: 25/10/2016
- Phantom: TWIN SAM; Type: Twin SAM V5.0; Serial: 1909
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Hotspot Bottom/WCDMA Band 2 High/Area Scan (81x91x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.895 mW/g

Hotspot Bottom/WCDMA Band 2 High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 21.7 V/m; Power Drift = 0.122 dB
Peak SAR (extrapolated) = 1.49 W/kg
SAR(1 g) = 0.780 mW/g; SAR(10 g) = 0.394 mW/g
Maximum value of SAR (measured) = 0.881 mW/g

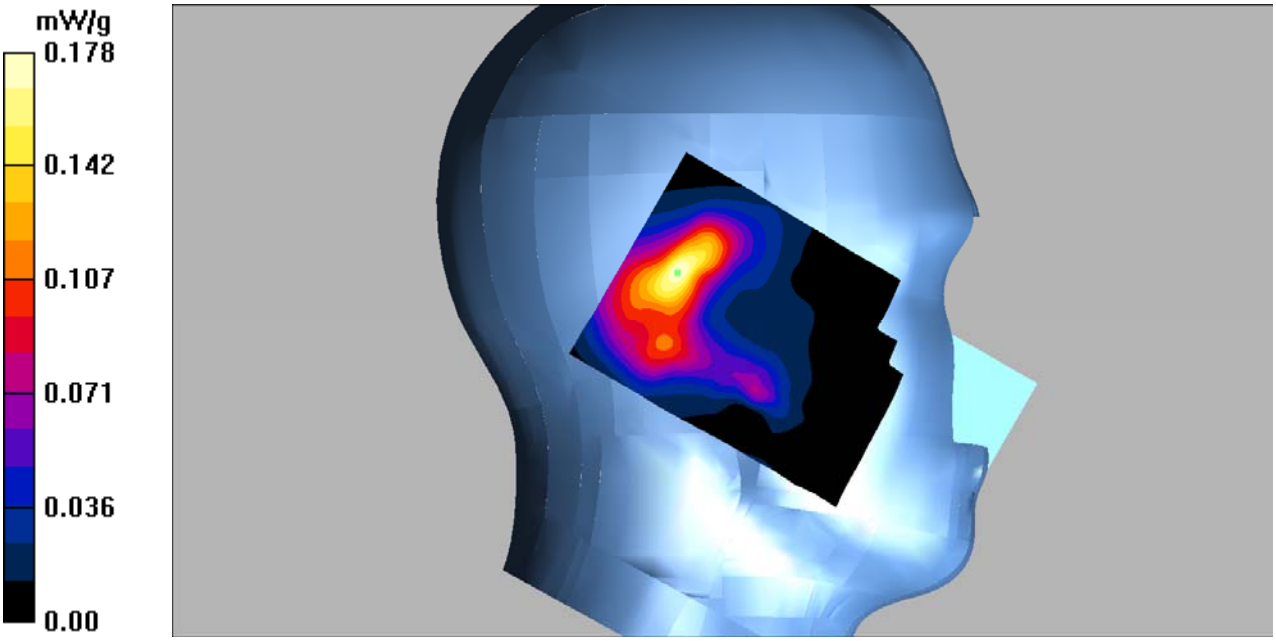


DUT: 3G Smart phone; Type: TS451A;

Communication System: Wi-Fi band; Frequency: 2442.0 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2442.0 MHz; σ = 1.80 mho/m; εr = 39.26; ρ = 1000 kg/m^3
Phantom section: Left Section
DASY4 Configuration:
- Probe: EX3DV4 – SN7382; ConvF(7.73, 7.73, 7.73); Calibrated: 26/10/2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE – SN772; Calibrated: 25/10/2016
- Phantom: TWIN SAM; Type: Twin SAM V5.0; Serial: 1909
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Left head cheek/Wi-Fi/Mid/Area Scan ((91x121x1)): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.179 mW/g

Left head cheek/Wi-Fi/Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.94 V/m; Power Drift = 0.043 dB
Peak SAR (extrapolated) = 0.291 W/kg
SAR(1 g) = 0.157 mW/g; SAR(10 g) = 0.081 mW/g
Maximum value of SAR (measured) = 0.178 mW/g

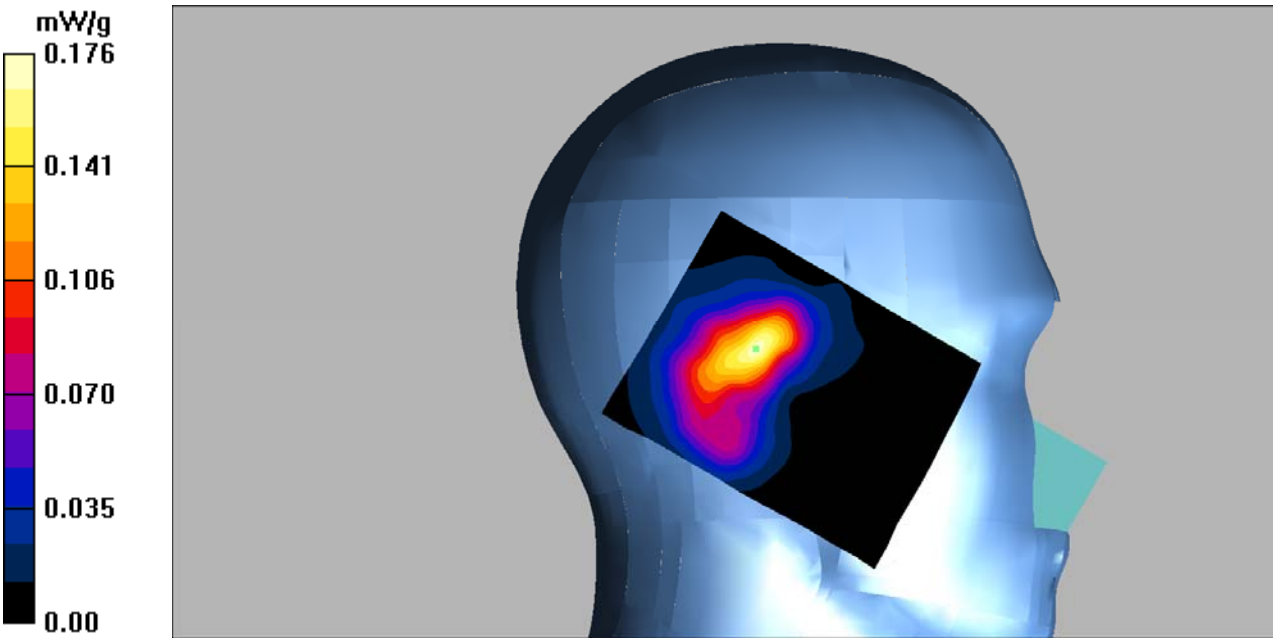


DUT: 3G Smart phone; Type: TS451A;

Communication System: Wi-Fi band; Frequency: 2442.0 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2442.0 MHz; σ = 1.80 mho/m; εr = 39.26; ρ = 1000 kg/m^3
Phantom section: Left Section
DASY4 Configuration:
- Probe: EX3DV4 – SN7382; ConvF(7.73, 7.73, 7.73); Calibrated: 26/10/2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE – SN772; Calibrated: 25/10/2016
- Phantom: TWIN SAM; Type: Twin SAM V5.0; Serial: 1909
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Left head tilt/Wi-Fi/Mid/Area Scan (91x121x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.171 mW/g

Left head tilt/Wi-Fi/Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.16 V/m; Power Drift = -0.186 dB
Peak SAR (extrapolated) = 0.281 W/kg
SAR(1 g) = 0.152 mW/g; SAR(10 g) = 0.082 mW/g
Maximum value of SAR (measured) = 0.176 mW/g

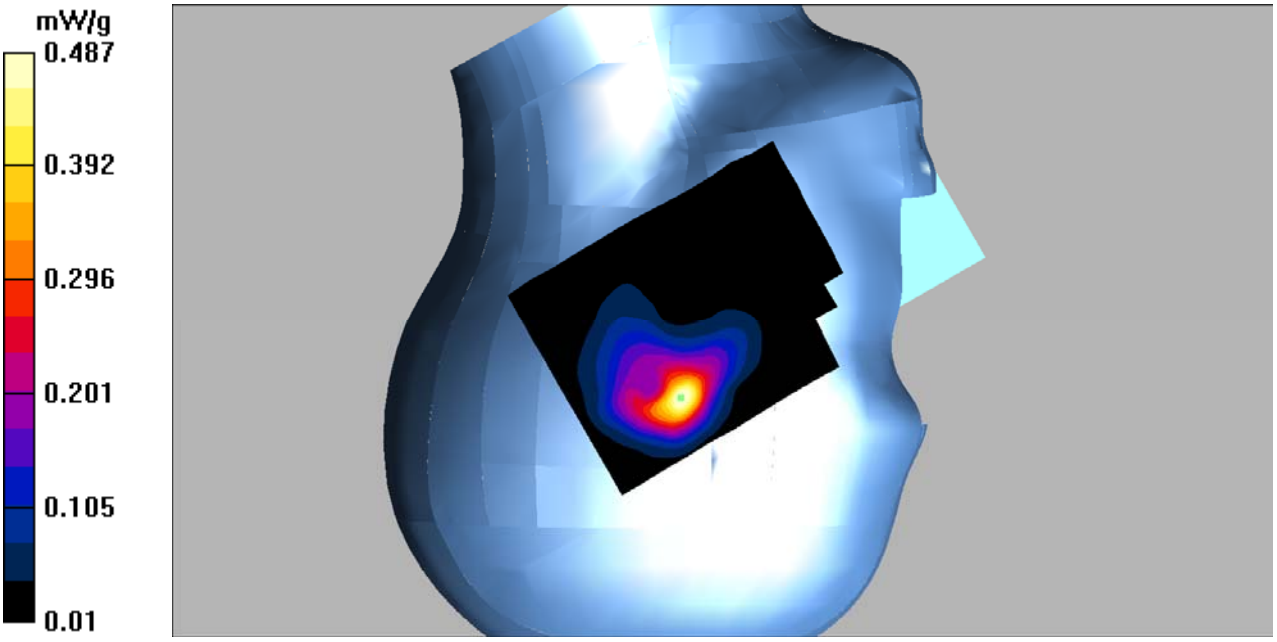


DUT: 3G Smart phone; Type: TS451A;

Communication System: Wi-Fi band; Frequency: 2442.0 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2442.0 MHz; σ = 1.80 mho/m; εr = 39.26; ρ = 1000 kg/m^3
Phantom section: Right Section
DASY4 Configuration:
- Probe: EX3DV4 – SN7382; ConvF(7.73, 7.73, 7.73); Calibrated: 26/10/2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE – SN772; Calibrated: 25/10/2016
- Phantom: TWIN SAM; Type: Twin SAM V5.0; Serial: 1909
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Right head cheek/Wi-Fi/Mid/Area Scan (91x121x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.505 mW/g

Right head cheek/Wi-Fi/Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.38 V/m; Power Drift = -0.093 dB
Peak SAR (extrapolated) = 1.08 W/kg
SAR(1 g) = 0.422 mW/g; SAR(10 g) = 0.174 mW/g
Maximum value of SAR (measured) = 0.487 mW/g

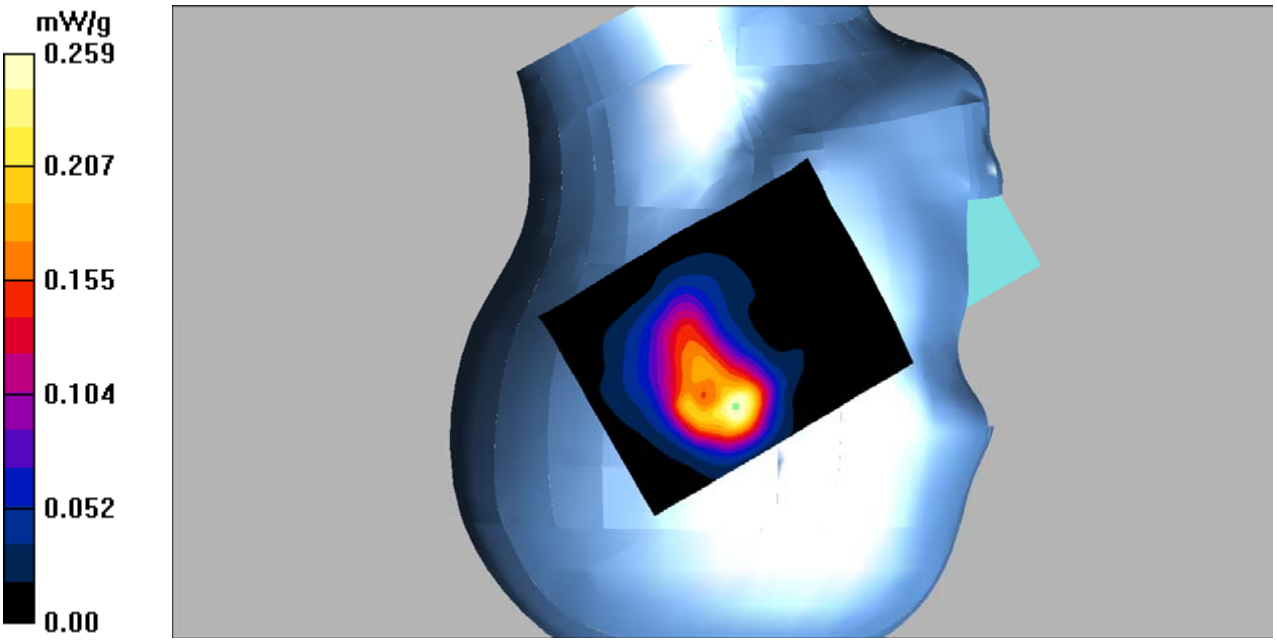


DUT: 3G Smart phone; Type: TS451A;

Communication System: Wi-Fi band; Frequency: 2442.0 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2442.0 MHz; σ = 1.80 mho/m; εr = 39.26; ρ = 1000 kg/m^3
Phantom section: Right Section
DASY4 Configuration:
- Probe: EX3DV4 – SN7382; ConvF(7.73, 7.73, 7.73); Calibrated: 26/10/2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE – SN772; Calibrated: 25/10/2016
- Phantom: TWIN SAM; Type: Twin SAM V5.0; Serial: 1909
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Right head tilt/Wi-Fi/Mid/Area Scan (91x121x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.275 mW/g

Right head tilt/Wi-Fi/Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.87 V/m; Power Drift = 0.008 dB
Peak SAR (extrapolated) = 0.557 W/kg
SAR(1 g) = 0.231 mW/g; SAR(10 g) = 0.110 mW/g
Maximum value of SAR (measured) = 0.259 mW/g

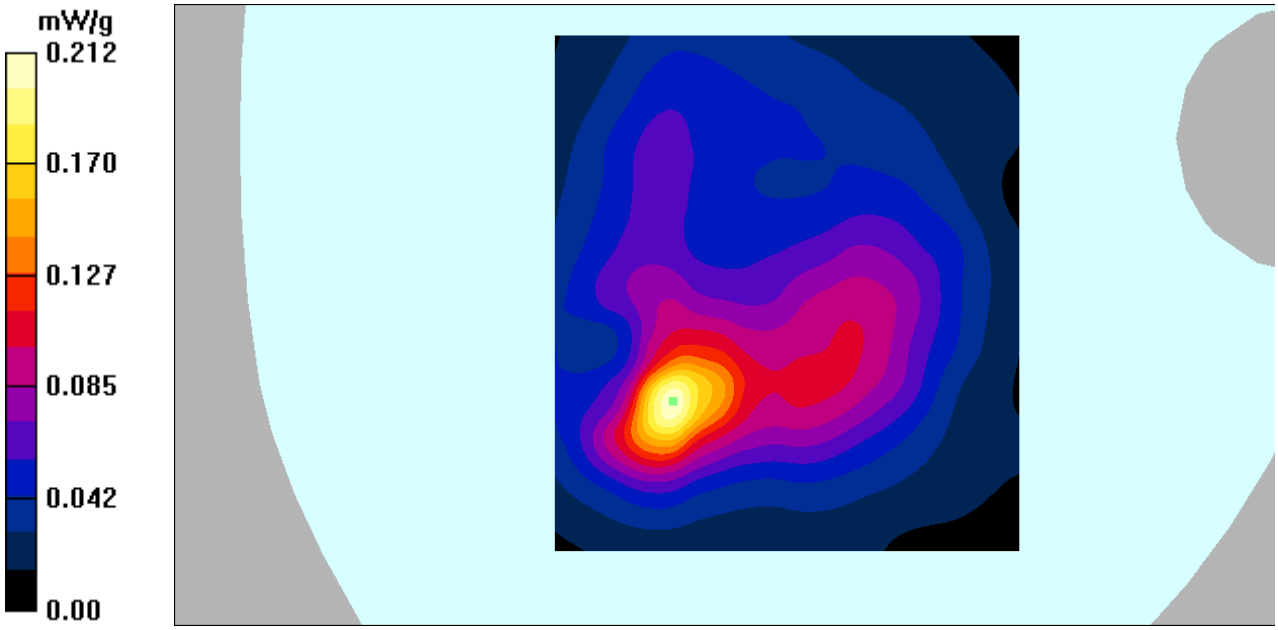


DUT: 3G Smart phone; Type: TS451A;

Communication System: Wi-Fi band; Frequency: 2442.0 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2442.0 MHz; σ = 1.92 mho/m; εr = 53.75; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV4 – SN7382; ConvF(7.88, 7.88, 7.88); Calibrated: 26/10/2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE – SN772; Calibrated: 25/10/2016
- Phantom: TWIN SAM; Type: Twin SAM V5.0; Serial: 1909
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Body-Back/Wi-Fi/Mid/Area Scan (91x101x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.209 mW/g

Body-Back/Wi-Fi/Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.60 V/m; Power Drift = -0.084 dB
Peak SAR (extrapolated) = 0.297 W/kg
SAR(1 g) = 0.172 mW/g; SAR(10 g) = 0.080 mW/g
Maximum value of SAR (measured) = 0.212 mW/g

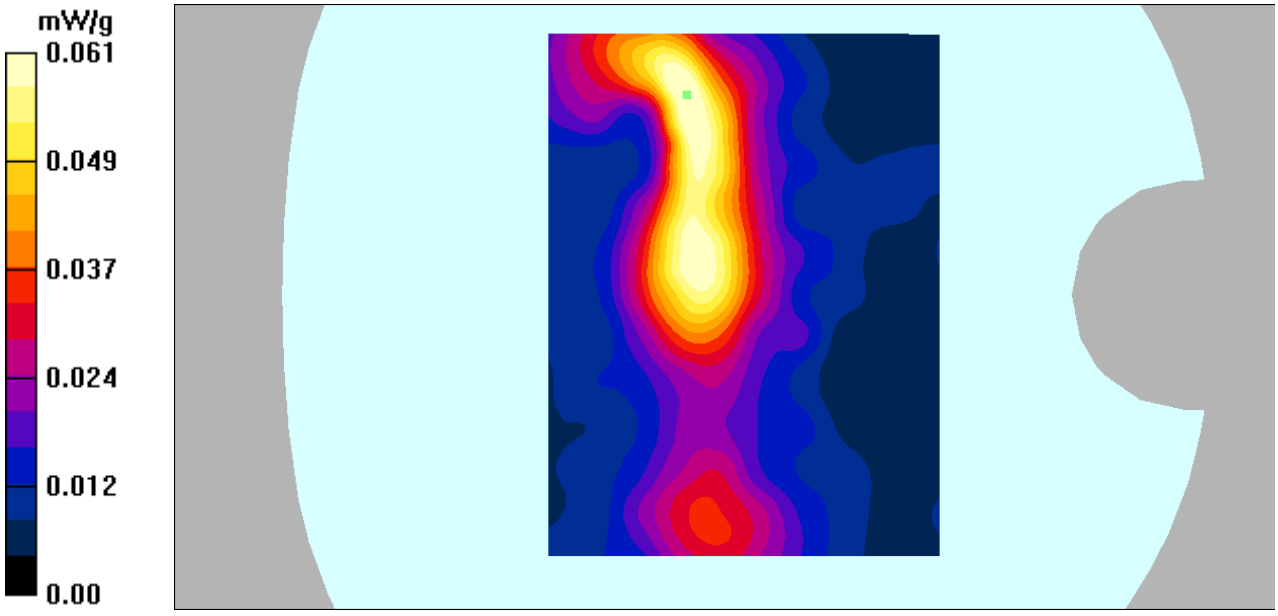


DUT: 3G Smart phone; Type: TS451A;

Communication System: Wi-Fi band; Frequency: 2442.0 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2442.0 MHz; σ = 1.92 mho/m; εr = 53.75; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV4 – SN7382; ConvF(7.88, 7.88, 7.88); Calibrated: 26/10/2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE – SN772; Calibrated: 25/10/2016
- Phantom: TWIN SAM; Type: Twin SAM V5.0; Serial: 1909
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Body-Left/Wi-Fi/Mid/Area Scan (91x121x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.063 mW/g

Body-Left/Wi-Fi/Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 11.5 V/m; Power Drift = -0.176 dB
Peak SAR (extrapolated) = 0.135 W/kg
SAR(1 g) = 0.054 mW/g; SAR(10 g) = 0.028 mW/g
Maximum value of SAR (measured) = 0.061 mW/g



DUT: 3G Smart phone; Type: TS451A;

Communication System: Wi-Fi band; Frequency: 2442.0 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2442.0 MHz; σ = 1.92 mho/m; εr = 53.75; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV4 – SN7382; ConvF(7.88, 7.88, 7.88); Calibrated: 26/10/2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE – SN772; Calibrated: 25/10/2016
- Phantom: TWIN SAM; Type: Twin SAM V5.0; Serial: 1909
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Body-Top/Wi-Fi/Mid/Area Scan (91x121x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.098 mW/g

Body-Top/Wi-Fi/Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.85 V/m; Power Drift = -0.044 dB
Peak SAR (extrapolated) = 0.147 W/kg
SAR(1 g) = 0.087 mW/g; SAR(10 g) = 0.052 mW/g
Maximum value of SAR (measured) = 0.098 mW/g