

APPENDIX A: TEST CONFIGURATIONS AND TEST DATA

A1: TEST CONFIGURATION

Body Worn Position



The bottom of the EUT to the flat phantom distance 15 mm

Left Head Cheek Position



Left Head Tilt Position



Right Head Cheek Position



Right Head Tilt Position



EUT Photo





Liquid Level Photo

Tissue 1900MHz D=150mm



Date/Time: 2005/4/20 09:35:21

Test Laboratory: Advance Data Technology

F8 Left Head PCS1900

DUT: GSM Tri-band Digital Mobile Phone ; Type: F8 ; Test Frequency: 1850.2 MHz

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

Phantom: SAM 12 Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.33$ mho/m; $\epsilon_r = 38.7$; $\rho = 1000$ kg/m³ ; Liquid level: 150mm

Phantom section: Left Section ; DUT test position : Cheek ; Modulation type: GMSK

Antenna type : External Antenna ; Air temp. : 22.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1753; ConvF(5.17, 5.17, 5.17) ; Calibrated: 2004/8/26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2005/3/23
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Low Channel/Area Scan (7x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.554 mW/g

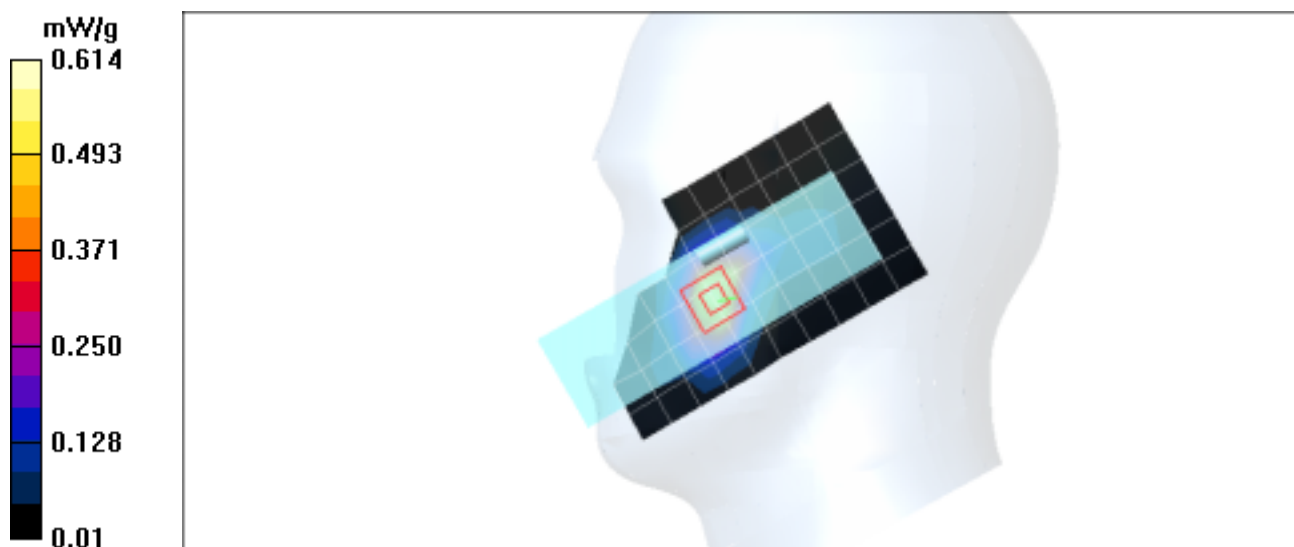
Touch position - Low Channel/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.70 V/m;

Peak SAR (extrapolated) = 0.845 W/kg

SAR(1 g) = 0.561 mW/g; SAR(10 g) = 0.320 mW/g

Maximum value of SAR (measured) = 0.614 mW/g



Date/Time: 2005/4/20 10:02:39

Test Laboratory: Advance Data Technology

F8 Left Head PCS1900

DUT: GSM Tri-band Digital Mobile Phone ; Type: F8 ; Test Frequency: 1880 MHz

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

Phantom: SAM 12 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 38.5$; $\rho = 1000$ kg/m³ ; Liquid level: 150mm

Phantom section: Left Section ; DUT test position : Cheek ; Modulation type: GMSK

Antenna type : External Antenna ; Air temp. : 22.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1753; ConvF(5.17, 5.17, 5.17) ; Calibrated: 2004/8/26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2005/3/23
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Middle Channel/Area Scan (7x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.687 mW/g

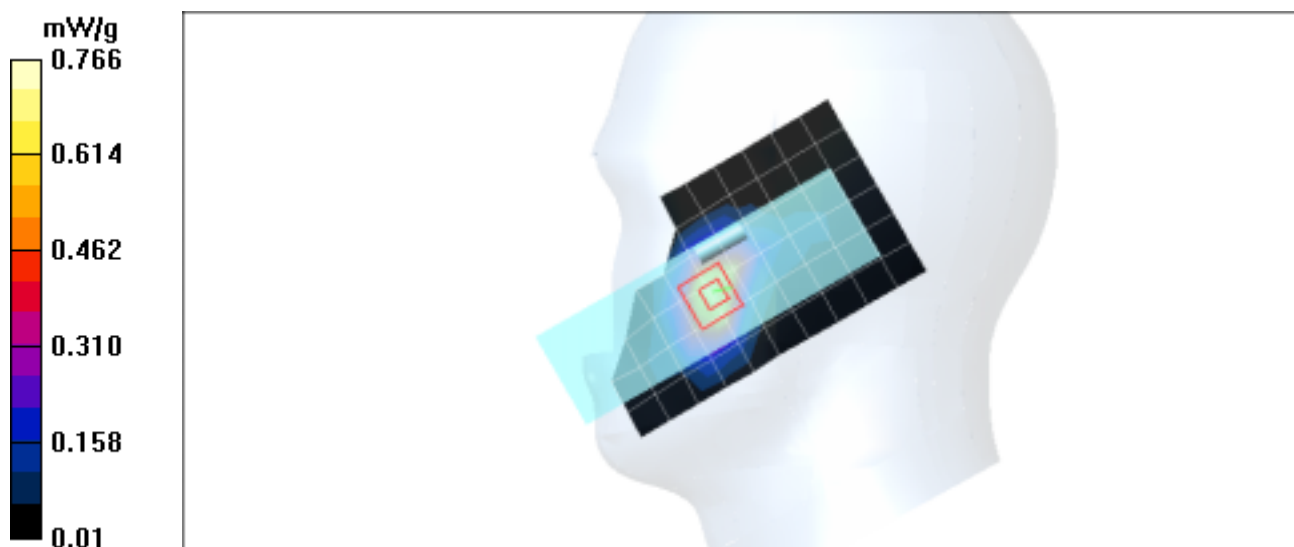
Touch position - Middle Channel/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.83 V/m;

Peak SAR (extrapolated) = 1.06 W/kg

SAR(1 g) = 0.698 mW/g; SAR(10 g) = 0.397 mW/g

Maximum value of SAR (measured) = 0.766 mW/g



Date/Time: 2005/4/20 10:26:52

Test Laboratory: Advance Data Technology

F8 Left Head PCS1900

DUT: GSM Tri-band Digital Mobile Phone ; Type: F8 ; Test Frequency: 1909.8 MHz

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

Phantom: SAM 12 Medium parameters used: $f = 1909.8$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 38.6$; $\rho = 1000$ kg/m³ ; Liquid level: 150mm

Phantom section: Left Section ; DUT test position : Cheek ; Modulation type: GMSK

Antenna type : External Antenna ; Air temp. : 22.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1753; ConvF(5.17, 5.17, 5.17) ; Calibrated: 2004/8/26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2005/3/23
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - High Channel/Area Scan (7x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.983 mW/g

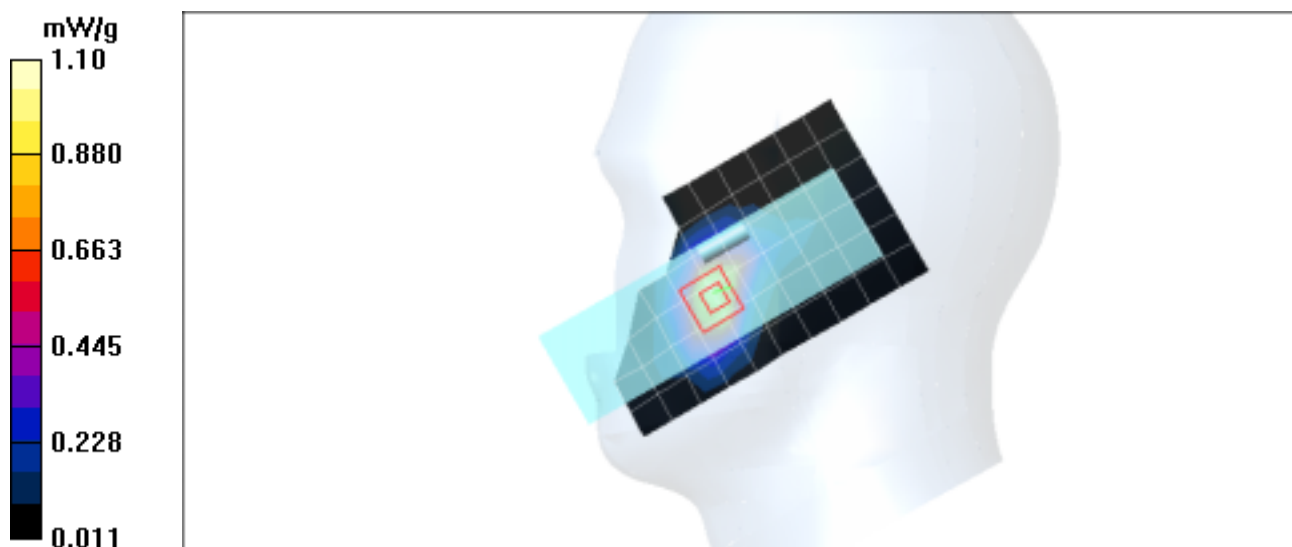
Touch position - High Channel/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

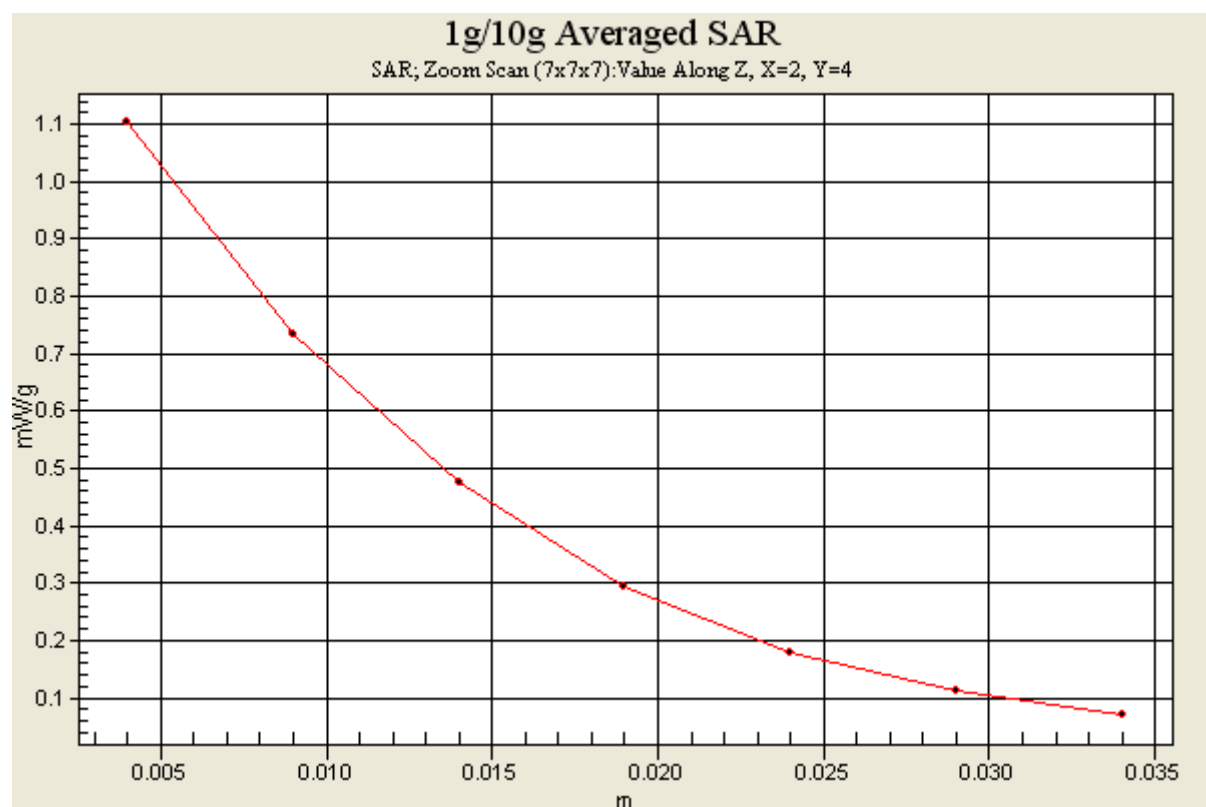
Reference Value = 6.59 V/m;

Peak SAR (extrapolated) = 1.48 W/kg

SAR(1 g) = 1 mW/g; SAR(10 g) = 0.572 mW/g

Maximum value of SAR (measured) = 1.10 mW/g





Date/Time: 2005/4/20 10:51:14

Test Laboratory: Advance Data Technology

F8 Left Head PCS1900

DUT: GSM Tri-band Digital Mobile Phone ; Type: F8 ; Test Channel Frequency: 1850.2 MHz

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

Medium: HSL1900 Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.33$ mho/m; $\epsilon_r = 38.7$; $\rho = 1000$ kg/m³ ; Liquid level: 150 mm

Phantom section: Left Section ; DUT test position : Tilt ; Modulation type: GMSK

Antenna type : External Antenna ; Air temp. : 22.0 degrees ; Liquid temp. : 21.0 degrees

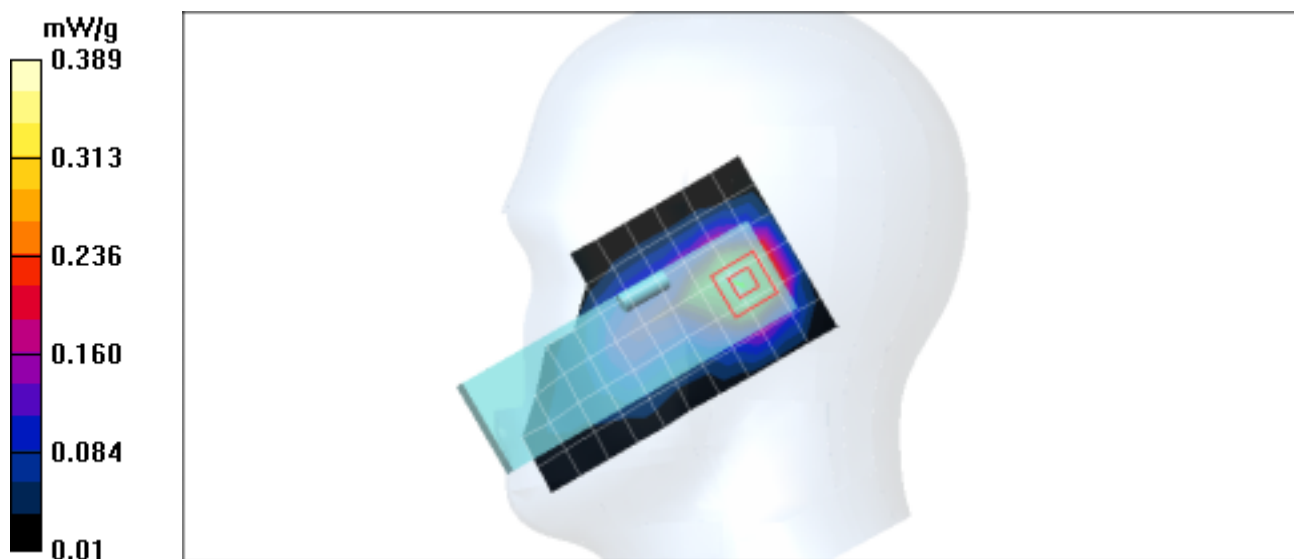
DASY4 Configuration:

- Probe: ET3DV6 - SN1753 ; ConvF(5.17, 5.17, 5.17) ; Calibrated: 2004/8/26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2005/3/23
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - Low Channel/Area Scan (7x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.368 mW/g

Tilt position - Low Channel/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 16.8 V/m;
Peak SAR (extrapolated) = 0.534 W/kg

SAR(1 g) = 0.360 mW/g; SAR(10 g) = 0.224 mW/g
Maximum value of SAR (measured) = 0.389 mW/g



Date/Time: 2005/4/20 11:14:03

Test Laboratory: Advance Data Technology

F8 Left Head PCS1900

DUT: GSM Tri-band Digital Mobile Phone ; Type: F8 ; Test Channel Frequency: 1880 MHz

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

Medium: HSL1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 38.5$; $\rho = 1000$ kg/m³ ; Liquid level: 150 mm

Phantom section: Left Section ; DUT test position : Tilt ; Modulation type: GMSK

Antenna type : External Antenna ; Air temp. : 22.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1753 ; ConvF(5.17, 5.17, 5.17) ; Calibrated: 2004/8/26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2005/3/23
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - Middle Channel/Area Scan (7x13x1): Measurement grid: dx=15mm, dy=15mm

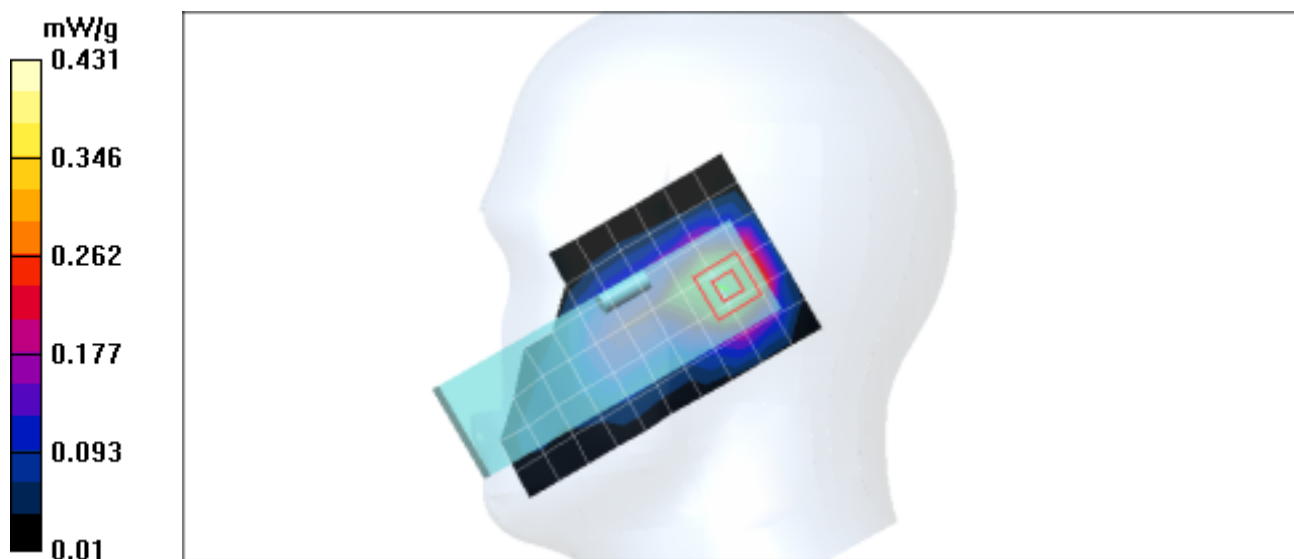
Maximum value of SAR (measured) = 0.397 mW/g

Tilt position - Middle Channel/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.5 V/m; Peak SAR (extrapolated) = 0.599 W/kg

SAR(1 g) = 0.398 mW/g; SAR(10 g) = 0.247 mW/g

Maximum value of SAR (measured) = 0.431 mW/g



Date/Time: 2005/4/20 11:30:35

Test Laboratory: Advance Data Technology

F8 Left Head PCS1900

DUT: GSM Tri-band Digital Mobile Phone ; Type: F8 ; Test Channel Frequency: 1909.8 MHz

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

Medium: HSL1900 Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.42 \text{ mho/m}$; $\epsilon_r = 38.6$; $\rho = 1000 \text{ kg/m}^3$; Liquid level: 150 mm

Phantom section: Left Section ; DUT test position : Tilt ; Modulation type: GMSK

Antenna type : External Antenna ; Air temp. : 22.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1753 ; ConvF(5.17, 5.17, 5.17) ; Calibrated: 2004/8/26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2005/3/23
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - High Channel/Area Scan (7x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.415 mW/g

Tilt position - High Channel/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

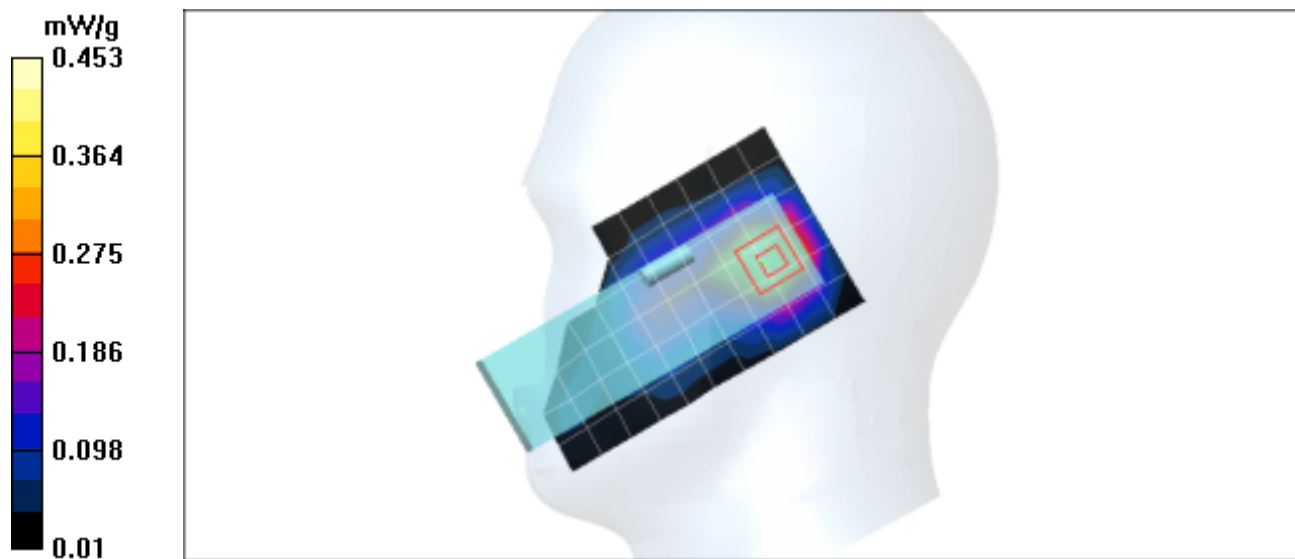
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 16.6 V/m;

Peak SAR (extrapolated) = 0.632 W/kg

SAR(1 g) = 0.416 mW/g; SAR(10 g) = 0.256 mW/g

Maximum value of SAR (measured) = 0.453 mW/g



Test Laboratory: Advance Data Technology

F8 Right Head PCS1900

DUT: GSM Tri-band Digital Mobile Phone ; Type: F8 ; Test Frequency: 1850.2 MHz

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

Phantom: SAM 12 Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.33$ mho/m; $\epsilon_r = 38.7$; $\rho = 1000$ kg/m³ ; Liquid level: 150mm

Phantom section: Right Section ; DUT test position : Cheek ; Modulation type: GMSK

Antenna type : External Antenna ; Air temp. : 22.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1753; ConvF(5.17, 5.17, 5.17) ; Calibrated: 2004/8/26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2005/3/23
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Low Channel/Area Scan (7x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.656 mW/g

Touch position - Low Channel/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

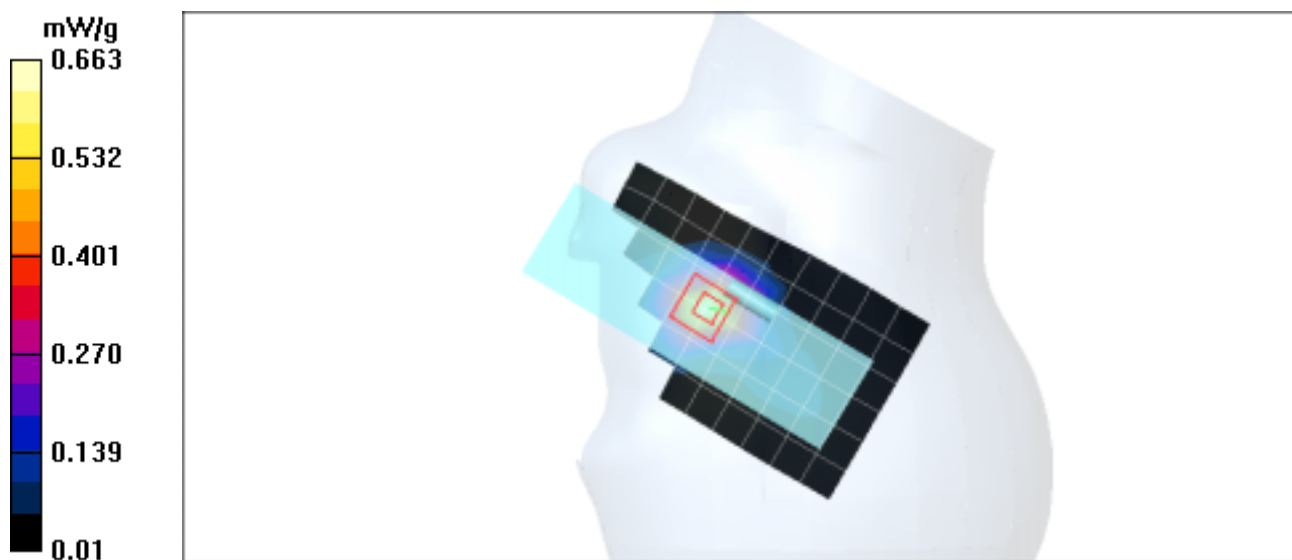
dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.46 V/m;

Peak SAR (extrapolated) = 0.887 W/kg

SAR(1 g) = 0.592 mW/g; SAR(10 g) = 0.338 mW/g

Maximum value of SAR (measured) = 0.663 mW/g



Date/Time: 2005/4/20 12:40:19

Test Laboratory: Advance Data Technology

F8 Right Head PCS1900

DUT: GSM Tri-band Digital Mobile Phone ; Type: F8 ; Test Frequency: 1880 MHz

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

Phantom: SAM 12 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 38.5$; $\rho = 1000$ kg/m³ ; Liquid level: 150mm

Phantom section: Right Section ; DUT test position : Cheek ; Modulation type: GMSK

Antenna type :External Antenna; Air temp. : 22.0degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1753; ConvF(5.17, 5.17, 5.17);Calibrated: 2004/8/26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2005/3/23
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Middle Channel/Area Scan (7x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.801 mW/g

Touch position - Middle Channel/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

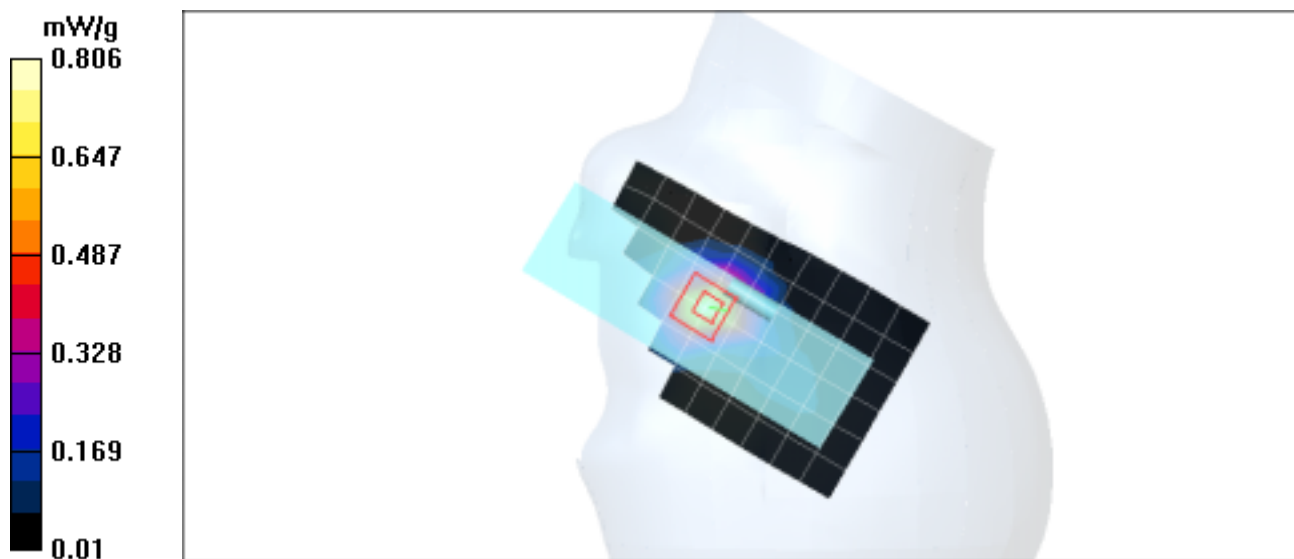
dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.76 V/m;

Peak SAR (extrapolated) = 1.08 W/kg

SAR(1 g) = 0.719 mW/g; SAR(10 g) = 0.409 mW/g

Maximum value of SAR (measured) = 0.806 mW/g



Date/Time: 2005/4/20 13:08:39

Test Laboratory: Advance Data Technology

F8 Right Head PCS1900

DUT: GSM Tri-band Digital Mobile Phone ; Type: F8 ; Test Frequency: 1909.8 MHz

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

Phantom: SAM 12 Medium parameters used: $f = 1909.8$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 38.6$; $\rho = 1000$ kg/m³ ; Liquid level: 150mm

Phantom section: Right Section ; DUT test position : Cheek ; Modulation type: GMSK

Antenna type : External Antenna ; Air temp. : 22.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1753; ConvF(5.17, 5.17, 5.17) ; Calibrated: 2004/8/26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2005/3/23
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - High Channel/Area Scan (7x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.09 mW/g

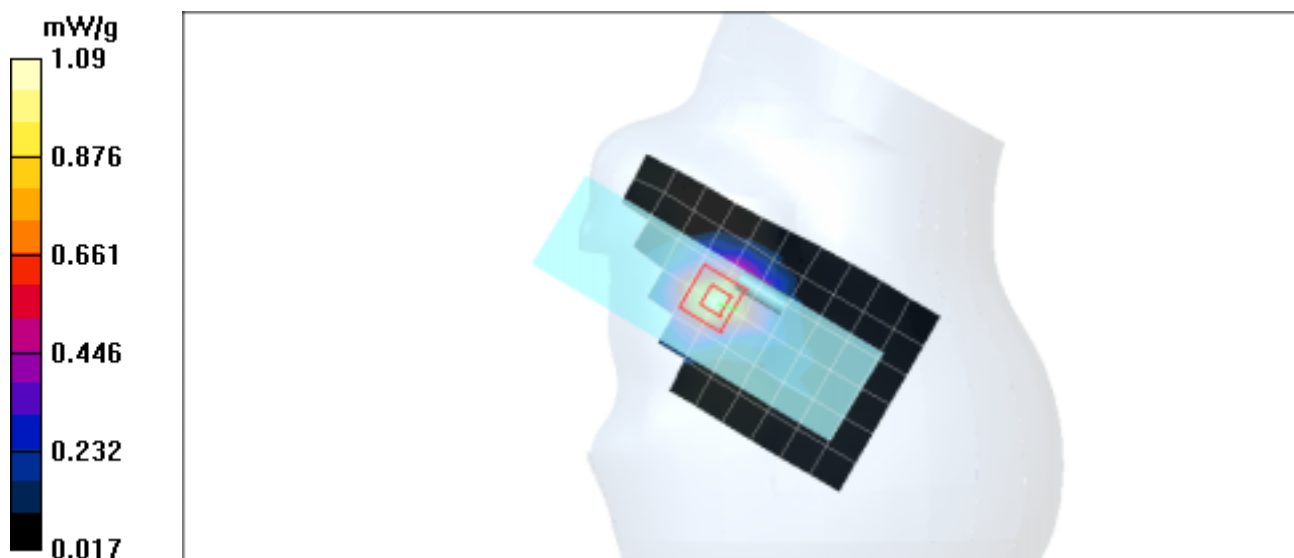
Touch position - High Channel/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.29 V/m;

Peak SAR (extrapolated) = 1.46 W/kg

SAR(1 g) = 0.987 mW/g; SAR(10 g) = 0.565 mW/g



Date/Time: 2005/4/20 13:37:04

Test Laboratory: Advance Data Technology

F8 Right Head PCS1900

DUT: GSM Tri-band Digital Mobile Phone ; Type: F8 ; Test Channel Frequency: 1850.2 MHz

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

Medium: HSL1900 Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.33$ mho/m; $\epsilon_r = 38.7$; $\rho = 1000$ kg/m³ ; Liquid level: 150 mm

Phantom section: Right Section ; DUT test position : Tilt ; Modulation type: GMSK

Antenna type : External Antenna ; Air temp. : 22.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1753 ; ConvF(5.17, 5.17, 5.17) ; Calibrated: 2004/8/26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2005/3/23
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - Low Channel/Area Scan (7x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.369 mW/g

Tilt position - Low Channel/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

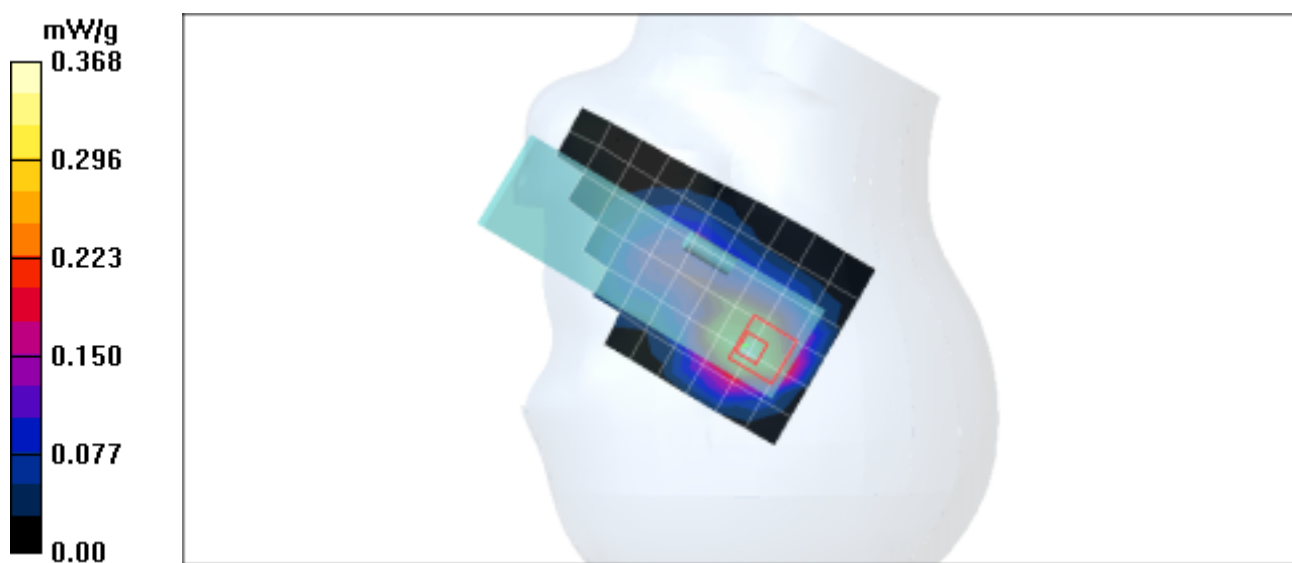
dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.1 V/m;

Peak SAR (extrapolated) = 0.506 W/kg

SAR(1 g) = 0.339 mW/g; SAR(10 g) = 0.198 mW/g

Maximum value of SAR (measured) = 0.368 mW/g



Test Laboratory: Advance Data Technology

F8 Right Head PCS1900

DUT: GSM Tri-band Digital Mobile Phone ; Type: F8 ; Test Channel Frequency: 1880 MHz

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

Medium: HSL1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 38.5$; $\rho = 1000$ kg/m³ ; Liquid level: 150 mm

Phantom section: Right Section ; DUT test position : Tilt ; Modulation type: GMSK

Antenna type : External Antenna ; Air temp. : 22.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1753 ; ConvF(5.17, 5.17, 5.17) ; Calibrated: 2004/8/26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2005/3/23
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - Middle Channel/Area Scan (7x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.399 mW/g

Tilt position - Middle Channel/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

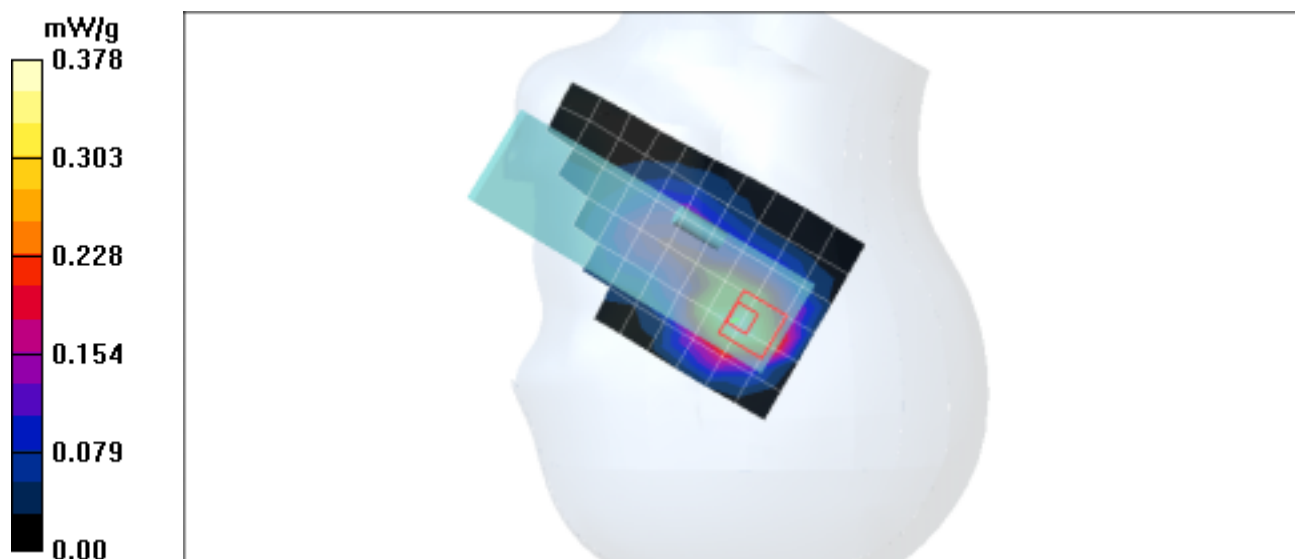
dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.5 V/m;

Peak SAR (extrapolated) = 0.528 W/kg

SAR(1 g) = 0.352 mW/g; SAR(10 g) = 0.206 mW/g

Maximum value of SAR (measured) = 0.378 mW/g



Date/Time: 2005/4/20 14:34:46

Test Laboratory: Advance Data Technology

F8 Right Head PCS1900

DUT: GSM Tri-band Digital Mobile Phone ; Type: F8 ; Test Channel Frequency: 1909.8 MHz

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

Medium: HSL1900 Medium parameters used: $f = 1909.8$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 38.6$; $\rho = 1000$ kg/m³ ; Liquid level: 150 mm

Phantom section: Right Section ; DUT test position : Tilt ; Modulation type: GMSK

Antenna type : External Antenna ; Air temp. : 22.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1753 ; ConvF(5.17, 5.17, 5.17) ; Calibrated: 2004/8/26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2005/3/23
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - High Channel/Area Scan (7x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.399 mW/g

Tilt position - High Channel/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

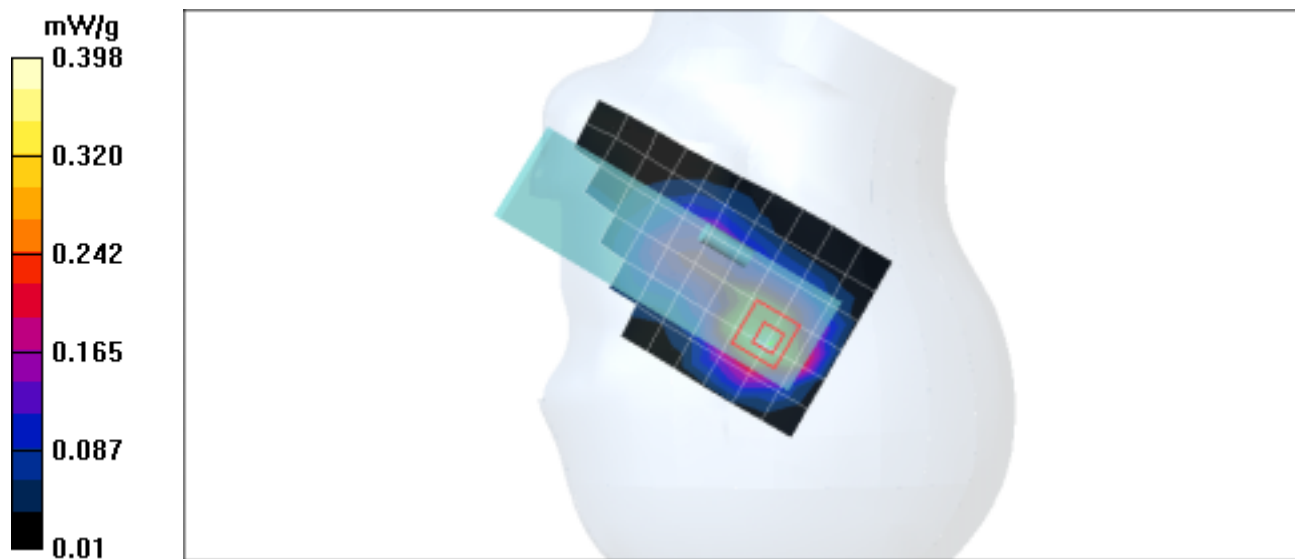
dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.0 V/m;

Peak SAR (extrapolated) = 0.555 W/kg

SAR(1 g) = 0.364 mW/g; SAR(10 g) = 0.220 mW/g

Maximum value of SAR (measured) = 0.398 mW/g



Date/Time: 2005/4/20 16:07:57

Test Laboratory: Advance Data Technology

F8 BodyWorn Bottom 15mm PCS1900 with GPRS

DUT: GSM Tri-band Digital Mobile Phone ; Type: F8 ; Test Channel Frequency: 1850.2 MHz

Communication System: PCS 1900 ; Frequency: 1850.2 MHz ; Duty Cycle: 1:4

Medium: MSL1900 Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.48$ mho/m; $\epsilon_r = 50.9$; $\rho = 1000$ kg/m³ ; Liquid Level : 150mm

Phantom section: Flat Section ; DUT test position : Body ; Modulation Type: GMSK / UL 2 time slots

Separation Distance : 15 mm (The bottom side of the EUT to the Phantom)

Antenna Type : External Antenna ; Air Temp. : 22.0 degrees ; Liquid Temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1753 ; ConvF(4.62, 4.62, 4.62) ; Calibrated: 2004/8/26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2005/3/23
- Phantom: SAM 12 ; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.5 Build 19 ; Postprocessing SW: SEMCAD, V1.8 Build 146

Low Channel 512/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.665 mW/g

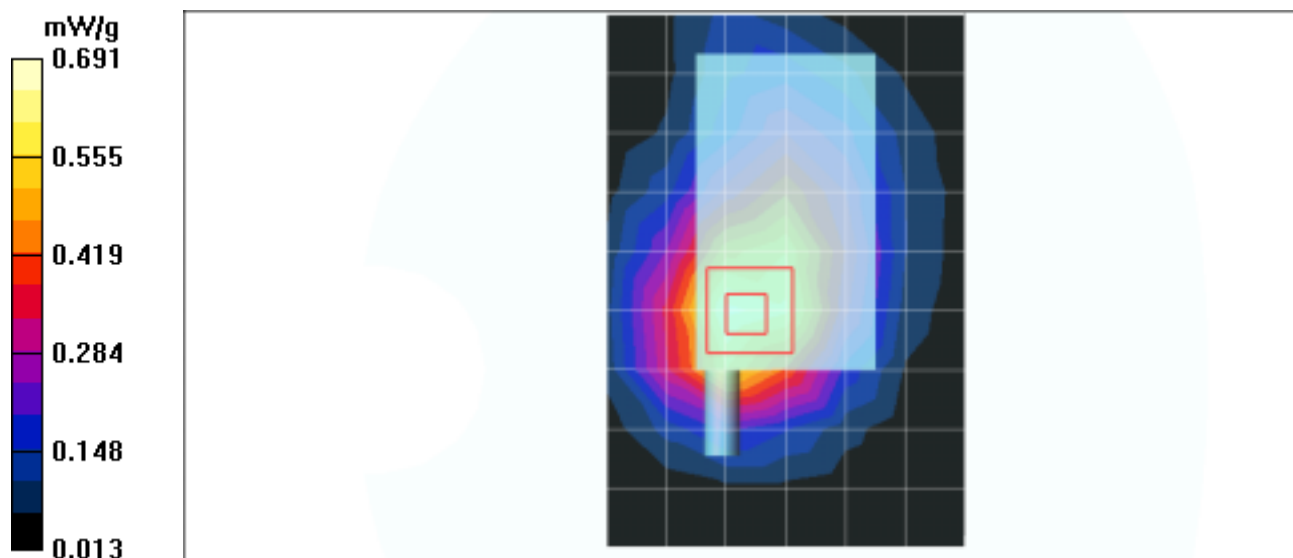
Low Channel 512/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 18.0 V/m;

Peak SAR (extrapolated) = 1.02 W/kg

SAR(1 g) = 0.637 mW/g; SAR(10 g) = 0.394 mW/g

Maximum value of SAR (measured) = 0.691 mW/g



Date/Time: 2005/4/20 16:36:18

Test Laboratory: Advance Data Technology

F8 BodyWorn Bottom 15mm PCS1900 with GPRS

DUT: GSM Tri-band Digital Mobile Phone ; Type: F8 ; Test Channel Frequency: 1880 MHz

Communication System: PCS 1900 ; Frequency: 1880 MHz ; Duty Cycle: 1:4

Medium: MSL1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.51$ mho/m; $\epsilon_r = 50.8$; $\rho = 1000$ kg/m³ ; Liquid Level : 150mm

Phantom section: Flat Section ; DUT test position : Body ; Modulation Type: GMSK / UL 2 time slots

Separation Distance : 15 mm (The bottom side of the EUT to the Phantom)

Antenna Type : External Antenna ; Air Temp. : 22.0 degrees ; Liquid Temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1753 ; ConvF(4.62, 4.62, 4.62) ; Calibrated: 2004/8/26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2005/3/23
- Phantom: SAM 12 ; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.5 Build 19 ; Postprocessing SW: SEMCAD, V1.8 Build 146

Middle Channel 661/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.641 mW/g

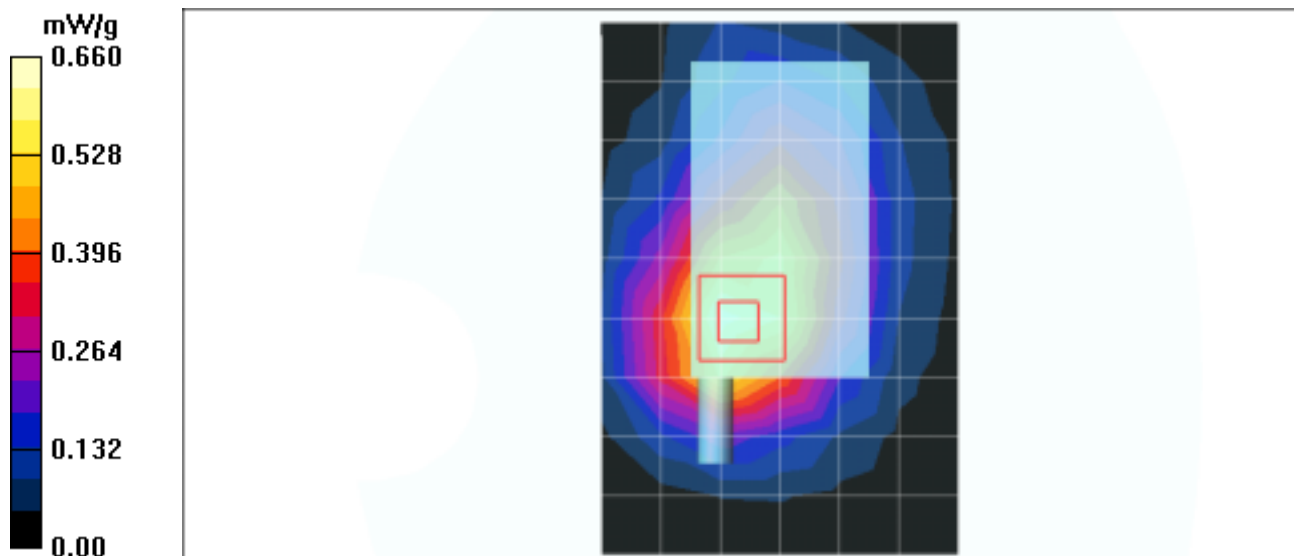
Middle Channel 661/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 17.4 V/m;

Peak SAR (extrapolated) = 1.00 W/kg

SAR(1 g) = 0.612 mW/g; SAR(10 g) = 0.378 mW/g

Maximum value of SAR (measured) = 0.660 mW/g



Date/Time: 2005/4/20 17:10:07

Test Laboratory: Advance Data Technology

F8 BodyWorn Bottom 15mm PCS1900 with GPRS

DUT: GSM Tri-band Digital Mobile Phone ; Type: F8 ; Test Channel Frequency: 1909.8 MHz

Communication System: PCS 1900 ; Frequency: 1909.8 MHz ; Duty Cycle: 1:4

Medium: MSL1900 Medium parameters used: $f = 1909.8$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 50.7$; $\rho = 1000$ kg/m³ ; Liquid Level : 150mm

Phantom section: Flat Section ; DUT test position : Body ; Modulation Type: GMSK / UL 2 time slots

Separation Distance : 15 mm (The bottom side of the EUT to the Phantom)

Antenna Type : External Antenna ; Air Temp. : 22.0 degrees ; Liquid Temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1753 ; ConvF(4.62, 4.62, 4.62) ; Calibrated: 2004/8/26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2005/3/23
- Phantom: SAM 12 ; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.5 Build 19 ; Postprocessing SW: SEMCAD, V1.8 Build 146

High Channel 810/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.714 mW/g

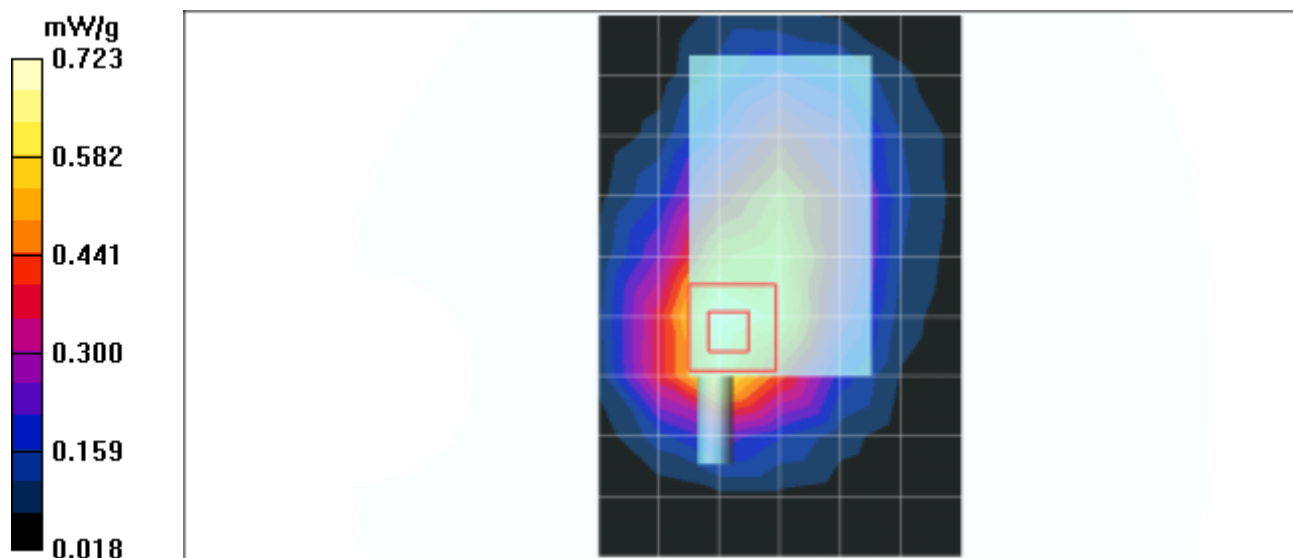
High Channel 810/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 17.5 V/m;

Peak SAR (extrapolated) = 1.12 W/kg

SAR(1 g) = 0.667 mW/g; SAR(10 g) = 0.404 mW/g

Maximum value of SAR (measured) = 0.723 mW/g



Date/Time: 2005/4/20 09:06:49

Test Laboratory: Advance Data Technology

System Validation Check HSL 1900MHz 2005-04-20

DUT: Dipole 1900 MHz ; Type: D1900V2 ; Serial: D1900V2 - SN:5d036 ; Test Frequency: 1900 MHz

Communication System: CW ; Frequency: 1900 MHz; Duty Cycle: 1:1; Modulation type: CW
Medium: HSL1900; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 38.6$; $\rho = 1000$ kg/m³ ; Liquid level : 150 mm

Phantom section: Flat Section ; Separation distance : 10 mm (The feetpoint of the dipole to the Phantom) Air temp. : 22.0 degrees ; Liquid temp. : 21.0 degrees

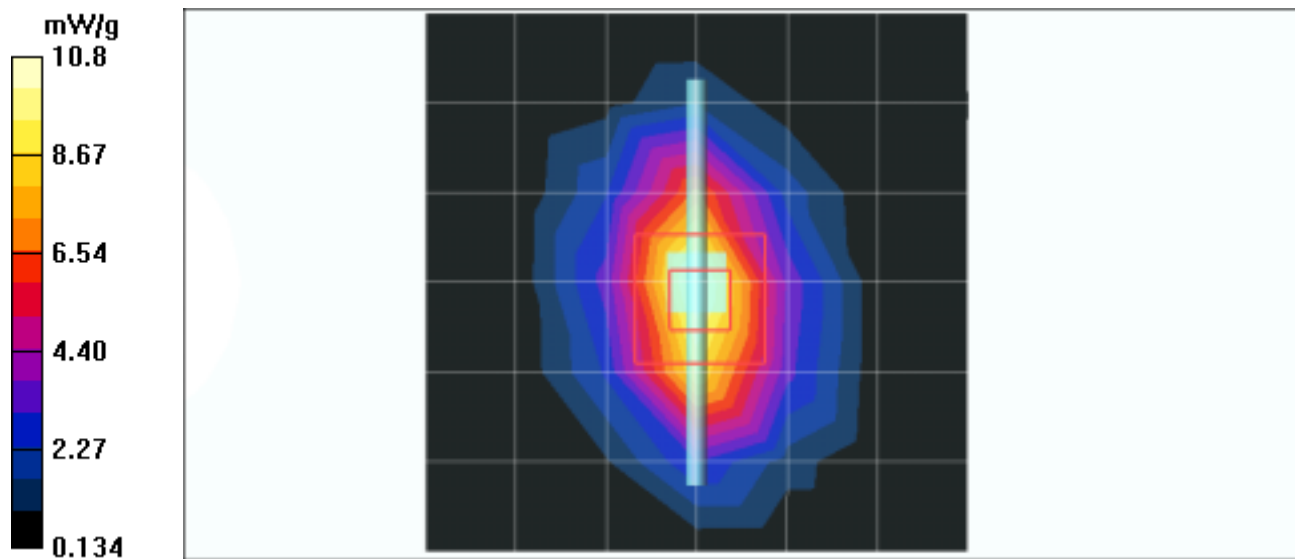
DASY4 Configuration:

- Probe: ET3DV6 - SN1753 ; ConvF(5.17, 5.17, 5.17) ; Calibrated: 2004/8/26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2005/3/23
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

d=10mm, Pin=250mW/Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 11.0 mW/g

d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 94.1 V/m; Power Drift = -0.258 dB
Peak SAR (extrapolated) = 17.4 W/kg

SAR(1 g) = 9.57 mW/g; SAR(10 g) = 4.97 mW/g
Maximum value of SAR (measured) = 10.8 mW/g



Date/Time: 2005/4/20 15:35:01

Test Laboratory: Advance Data Technology

System Validation Check MSL 1900MHz 2005-04-20

DUT: Dipole 1900 MHz ; Type: D1900V2 ; Serial: D1900V2 - SN:5d036 ; Test Frequency: 1900 MHz

Communication System: CW ; Frequency: 1900 MHz; Duty Cycle: 1:1; Modulation type: CW
Medium: MSL1900; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.53$ mho/m; $\epsilon_r = 50.7$; $\rho = 1000$ kg/m³ ; Liquid level : 150 mm

Phantom section: Flat Section ; Separation distance : 10 mm (The feetpoint of the dipole to the Phantom) Air temp. : 22.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1753 ; ConvF(4.62, 4.62, 4.62) ; Calibrated: 2004/8/26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2005/3/23
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

d=10mm, Pin=250mW/Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 10.3 mW/g

d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 87.5 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 16.0 W/kg

SAR(1 g) = 9.19 mW/g; SAR(10 g) = 4.84 mW/g
Maximum value of SAR (measured) = 10.4 mW/g

