

## **APPENDIX G**

### **Plots of The SAR Measurements**

**SAMSUNG FCC ID : A3LSGHX497 835MHz GSM850 Head SAR**

**DUT: SGH-X497; Serial: FC-088-G**

**Program Name: SGH-X497 GSM850 Right (Job No. : FC-088)**

**Procedure Name: Cheek/Touch, Ch.128, Ant.Fixed, Bat.Standard**

**Procedure Notes: Meas.Tissue Temp(celsius)-21.5; Test Date-01/Jul/2005 [OET Bulletin 65-Supplement C, July 2001]**

Communication System: GSM850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3

Medium parameters used:  $f = 824.2$  MHz;  $\sigma = 0.91$  mho/m;  $\epsilon_r = 40.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(9.24, 9.24, 9.24); Calibrated: 2004-12-15

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn468; Calibrated: 2004-12-07

- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1248

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

**Cheek/Touch, Ch.128, Ant.Fixed, Bat.Standard/Area Scan (51x71x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 1.46 mW/g

**Cheek/Touch, Ch.128, Ant.Fixed, Bat.Standard/Zoom Scan (5x5x7)/Cube 0:**

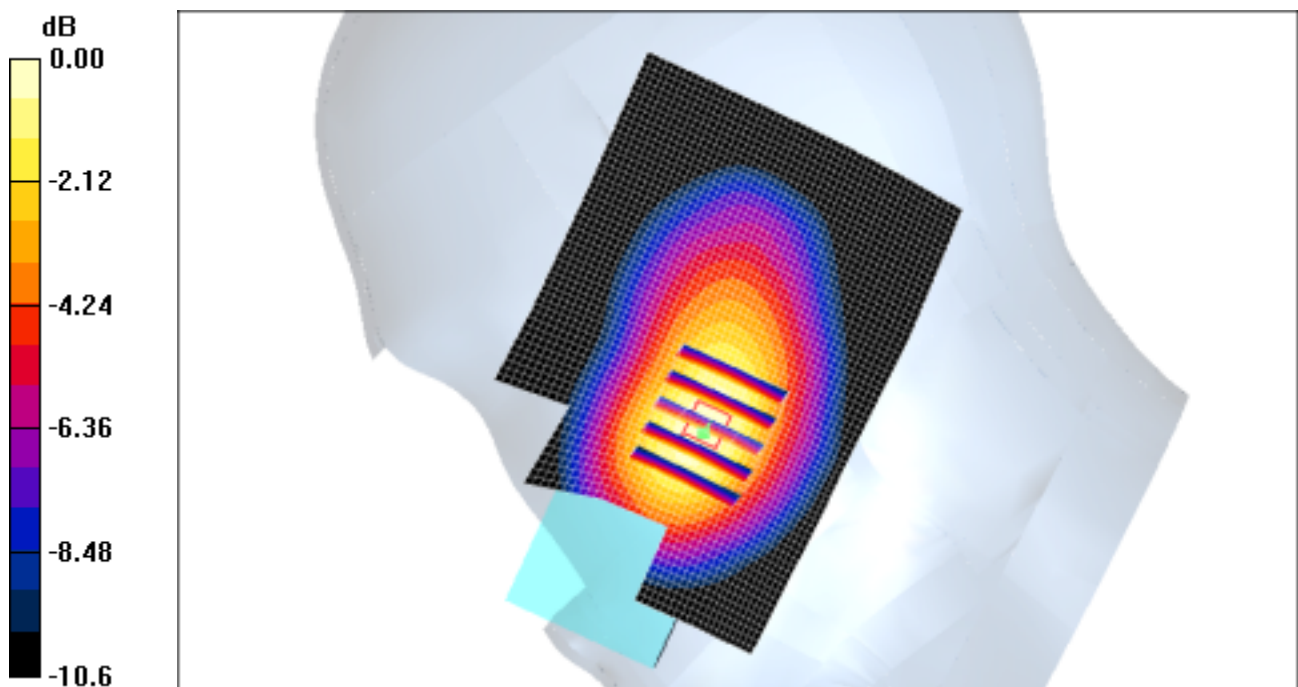
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.3 V/m; Power Drift = 0.078 dB

Peak SAR (extrapolated) = 2.16 W/kg

**SAR(1 g) = 1.4 mW/g**

Maximum value of SAR (measured) = 1.51 mW/g



0 dB = 1.51mW/g

**SAMSUNG FCC ID : A3LSGHX497 835MHz GSM850 Head SAR**

**DUT: SGH-X497; Serial: FC-088-G**

**Program Name: SGH-X497 GSM850 Right (Job No. : FC-088)**

**Procedure Name: Ear/Tilt, Ch.190, Ant.Fixed, Bat.Standard**

**Procedure Notes: Meas.Tissue Temp(celsius)-21.5; Test Date-01/Jul/2005 [OET Bulletin 65-Supplement C, July 2001]**

Communication System: GSM850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used:  $f = 836.6$  MHz;  $\sigma = 0.91$  mho/m;  $\epsilon_r = 40.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(9.24, 9.24, 9.24); Calibrated: 2004-12-15

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn468; Calibrated: 2004-12-07

- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1248

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

**Ear/Tilt, Ch.190, Ant.Fixed, Bat.Standard/Area Scan (51x71x1):** Measurement grid:

$dx=20$ mm,  $dy=20$ mm

Maximum value of SAR (interpolated) = 0.330 mW/g

**Ear/Tilt, Ch.190, Ant.Fixed, Bat.Standard/Zoom Scan (5x5x7)/Cube 0:** Measurement

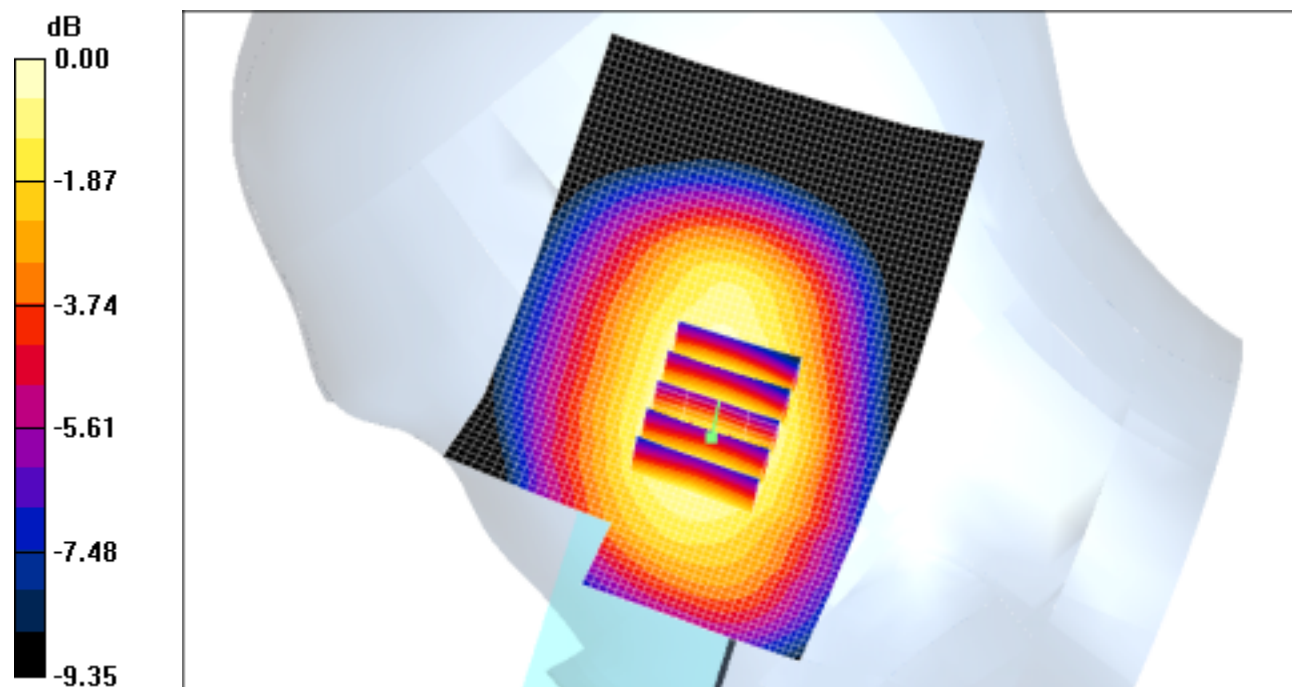
grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 11.3 V/m; Power Drift = 0.147 dB

Peak SAR (extrapolated) = 0.398 W/kg

**SAR(1 g) = 0.310 mW/g**

Maximum value of SAR (measured) = 0.324 mW/g



0 dB = 0.324mW/g

**SAMSUNG FCC ID : A3LSGHX497 835MHz GSM850 Head SAR**

**DUT: SGH-X497; Serial: FC-068-B**

**Program Name: SGH-X497 GSM850 Left (Job No. : FC-088)**

**Procedure Name: Cheek/Touch, Ch.128, Ant.Fixed, Bat.Standard**

**Procedure Notes: Meas.Tissue Temp(celsius)-21.5; Test Date-01/Jul/2005 [OET Bulletin 65-Supplement C, July 2001]**

Communication System: GSM850; Frequency: 824.2 MHz;Duty Cycle: 1:8.3

Medium parameters used:  $f = 824.2$  MHz;  $\sigma = 0.91$  mho/m;  $\epsilon_r = 40.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(9.24, 9.24, 9.24); Calibrated: 2004-12-15

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn468; Calibrated: 2004-12-07

- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1248

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

**Cheek/Touch, Ch.128, Ant.Fixed, Bat.Standard/Area Scan (51x71x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 1.42 mW/g

**Cheek/Touch, Ch.128, Ant.Fixed, Bat.Standard/Zoom Scan (5x5x7)/Cube 0:**

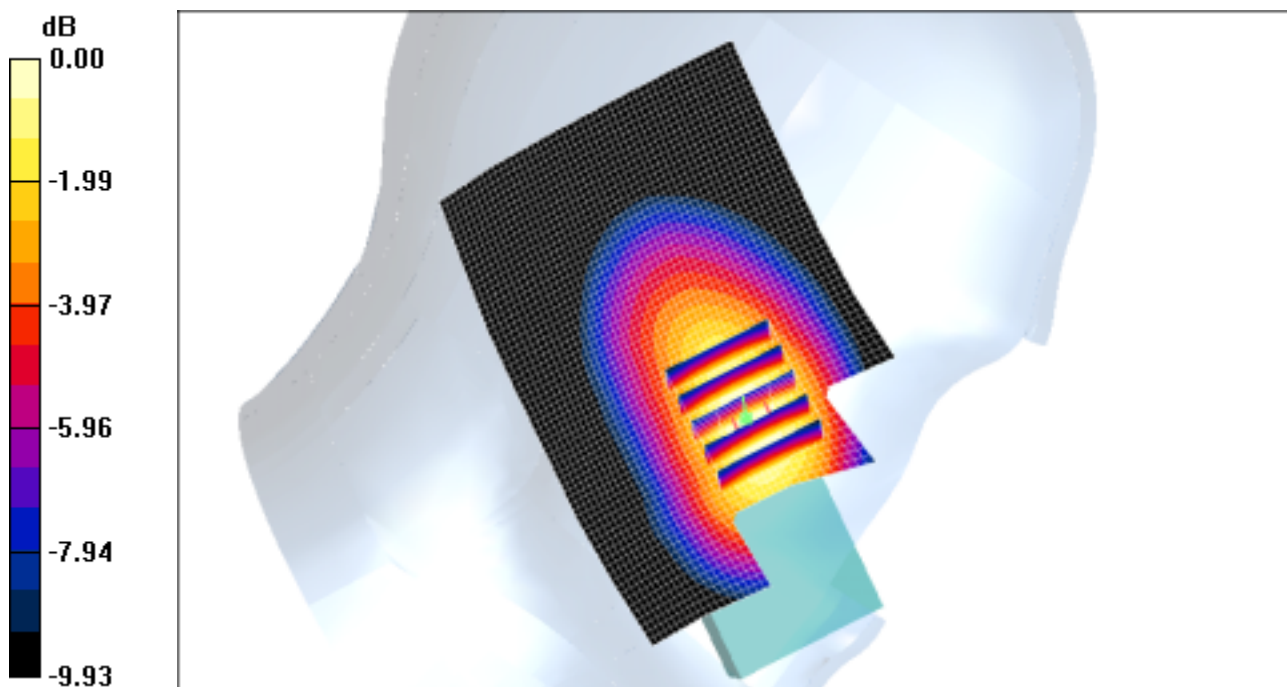
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.3 V/m; Power Drift = -0.044 dB

Peak SAR (extrapolated) = 1.89 W/kg

**SAR(1 g) = 1.31 mW/g**

Maximum value of SAR (measured) = 1.39 mW/g



0 dB = 1.39mW/g

**SAMSUNG FCC ID : A3LSGHX497 835MHz GSM850 Head SAR**

**DUT: SGH-X497; Serial: FC-068-B**

**Program Name: SGH-X497 GSM850 Left (Job No. : FC-088)**

**Procedure Name: Ear/Tilt, Ch.190, Ant.Fixed, Bat.Standard**

**Procedure Notes: Meas.Tissue Temp(celsius)-21.5; Test Date-01/Jul/2005 [OET Bulletin 65-Supplement C, July 2001]**

Communication System: GSM850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used:  $f = 836.6$  MHz;  $\sigma = 0.91$  mho/m;  $\epsilon_r = 40.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(9.24, 9.24, 9.24); Calibrated: 2004-12-15

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn468; Calibrated: 2004-12-07

- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1248

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

**Ear/Tilt, Ch.190, Ant.Fixed, Bat.Standard/Area Scan (51x71x1):** Measurement grid:

$dx=20$ mm,  $dy=20$ mm

Maximum value of SAR (interpolated) = 0.444 mW/g

**Ear/Tilt, Ch.190, Ant.Fixed, Bat.Standard/Zoom Scan (5x5x7)/Cube 0:**

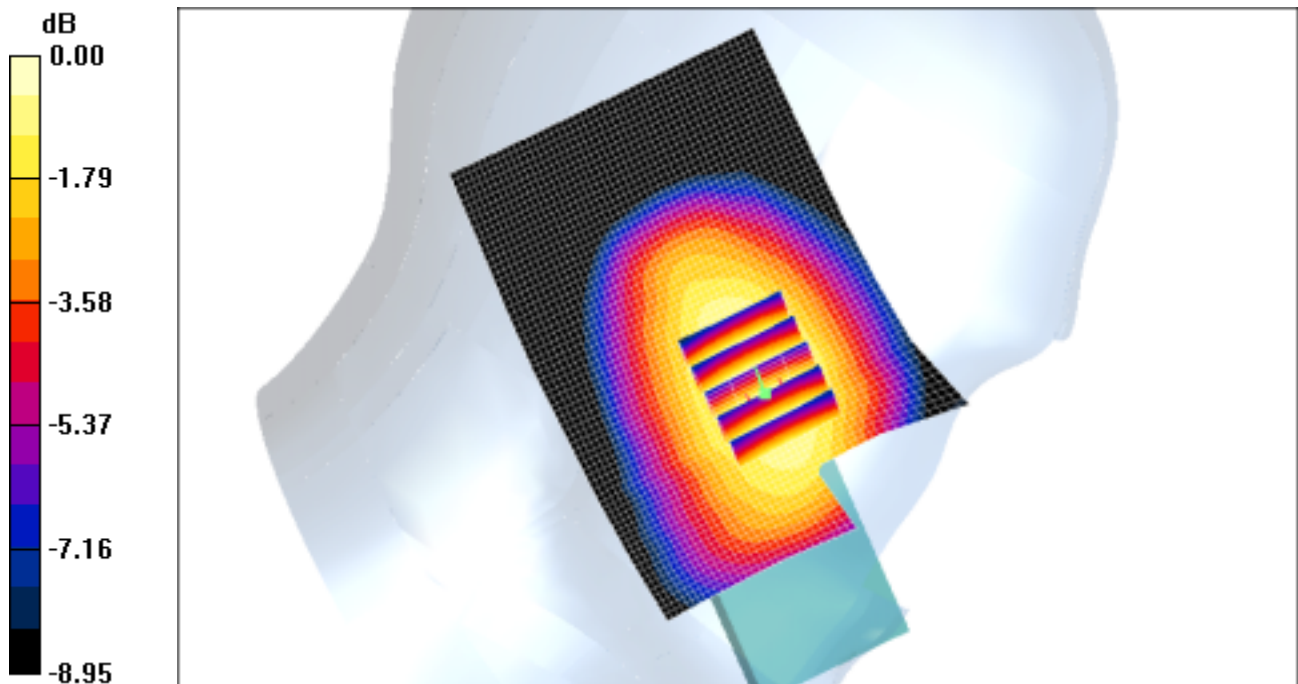
Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 10.4 V/m; Power Drift = -0.059 dB

Peak SAR (extrapolated) = 0.533 W/kg

**SAR(1 g) = 0.408 mW/g**

Maximum value of SAR (measured) = 0.427 mW/g



0 dB = 0.427mW/g

**SAMSUNG FCC ID : A3LSGHX497 1900MHz GSM1900 Head SAR**

**DUT: SGH-X497; Serial: FC-088-G**

**Program Name: SGH-X497 GSM1900 Right (Job No. : FC-088)**

**Procedure Name: Cheek/Touch, Ch.810, Ant.Fixed, Bat.Standard**

**Procedure Notes: Meas.Tissue Temp(celsius)-20.9; Test Date-01/Jul/2005 [OET Bulletin 65-Supplement C, July 2001]**

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

Medium parameters used:  $f = 1909.8$  MHz;  $\sigma = 1.37$  mho/m;  $\epsilon_r = 38.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(8.29, 8.29, 8.29); Calibrated: 2004-12-15

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn468; Calibrated: 2004-12-07

- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1248

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

**Cheek/Touch, Ch.810, Ant.Fixed, Bat.Standard/Area Scan (51x71x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.578 mW/g

**Cheek/Touch, Ch.810, Ant.Fixed, Bat.Standard/Zoom Scan (5x5x7)/Cube 0:**

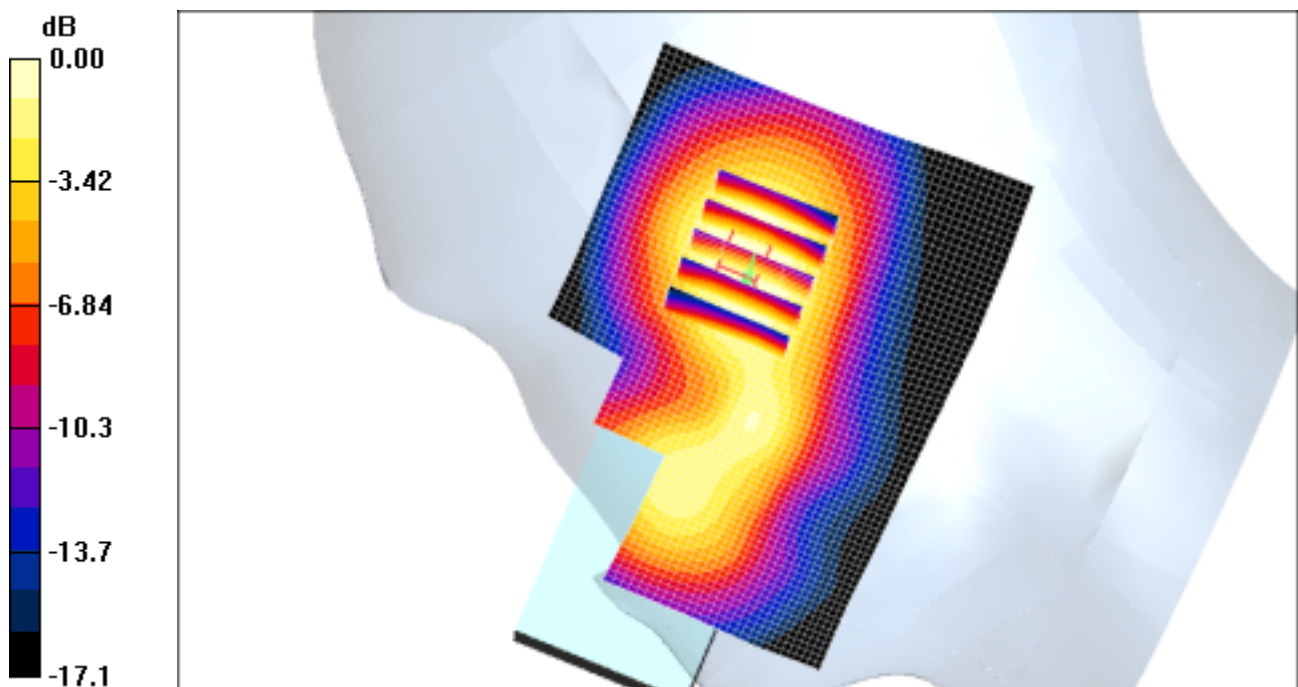
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.40 V/m; Power Drift = -0.100 dB

Peak SAR (extrapolated) = 0.727 W/kg

**SAR(1 g) = 0.510 mW/g**

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



0 dB = 0.540mW/g

**SAMSUNG FCC ID : A3LSGHX497 1900MHz GSM1900 Head SAR**

**DUT: SGH-X497; Serial: FC-088-G**

**Program Name: SGH-X497 GSM1900 Right (Job No. : FC-088)**

**Procedure Name: Ear/Tilt, Ch.661, Ant.Fixed, Bat.Standard**

**Procedure Notes: Meas.Tissue Temp(celsius)-20.9; Test Date-01/Jul/2005 [OET Bulletin 65-Supplement C, July 2001]**

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

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.37$  mho/m;  $\epsilon_r = 38.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(8.29, 8.29, 8.29); Calibrated: 2004-12-15

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn468; Calibrated: 2004-12-07

- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1248

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

**Ear/Tilt, Ch.661, Ant.Fixed, Bat.Standard/Area Scan (51x71x1):** Measurement grid:

$dx=20$ mm,  $dy=20$ mm

Maximum value of SAR (interpolated) = 0.150 mW/g

**Ear/Tilt, Ch.661, Ant.Fixed, Bat.Standard/Zoom Scan (5x5x7)/Cube 0:** Measurement

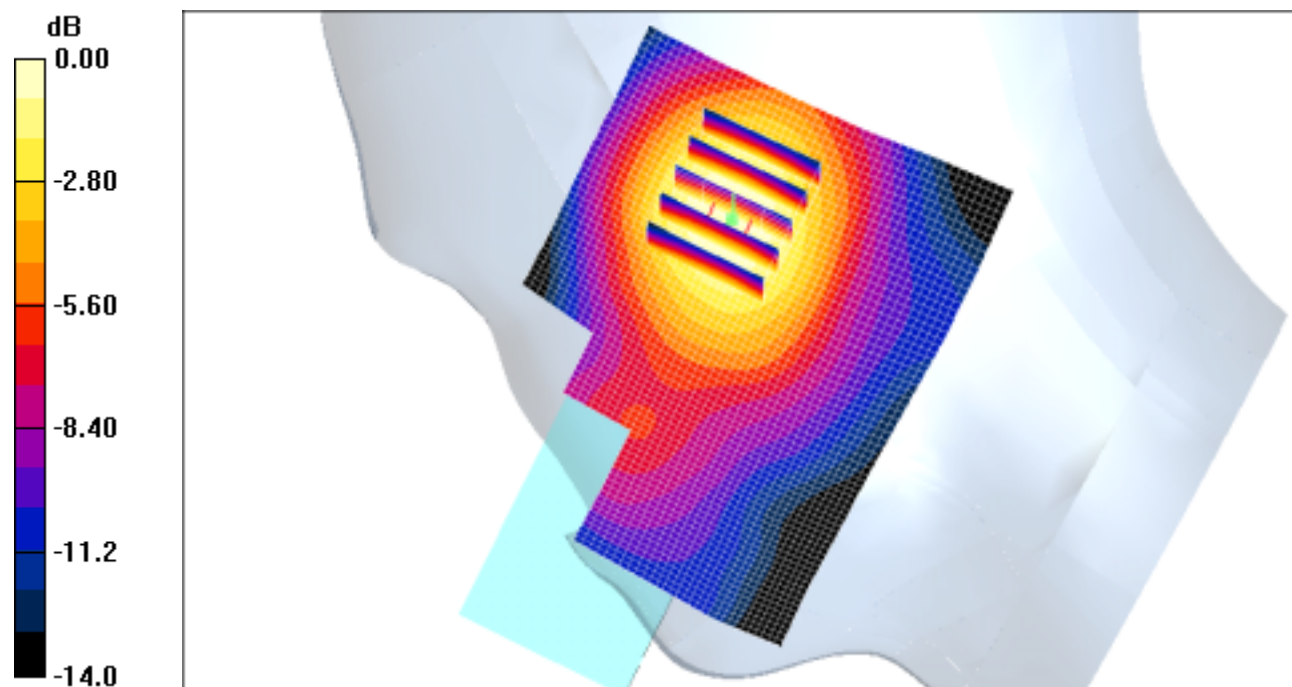
grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 6.28 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.194 W/kg

**SAR(1 g) = 0.134 mW/g**

Maximum value of SAR (measured) = 0.146 mW/g



0 dB = 0.146mW/g

**SAMSUNG FCC ID : A3LSGHX497 1900MHz GSM1900 Head SAR**

**DUT: SGH-X497; Serial: FC-088-G**

**Program Name: SGH-X497 GSM1900 Left (Job No. : FC-088)**

**Procedure Name: Cheek/Touch, Ch.810, Ant.Fixed, Bat.Standard**

**Procedure Notes: Meas.Tissue Temp(celsius)-20.9; Test Date-01/Jul/2005 [OET Bulletin 65-Supplement C, July 2001]**

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

Medium parameters used:  $f = 1909.8$  MHz;  $\sigma = 1.37$  mho/m;  $\epsilon_r = 38.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(8.29, 8.29, 8.29); Calibrated: 2004-12-15

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn468; Calibrated: 2004-12-07

- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1248

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

**Cheek/Touch, Ch.810, Ant.Fixed, Bat.Standard/Area Scan (51x71x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.523 mW/g

**Cheek/Touch, Ch.810, Ant.Fixed, Bat.Standard/Zoom Scan (5x5x7)/Cube 0:**

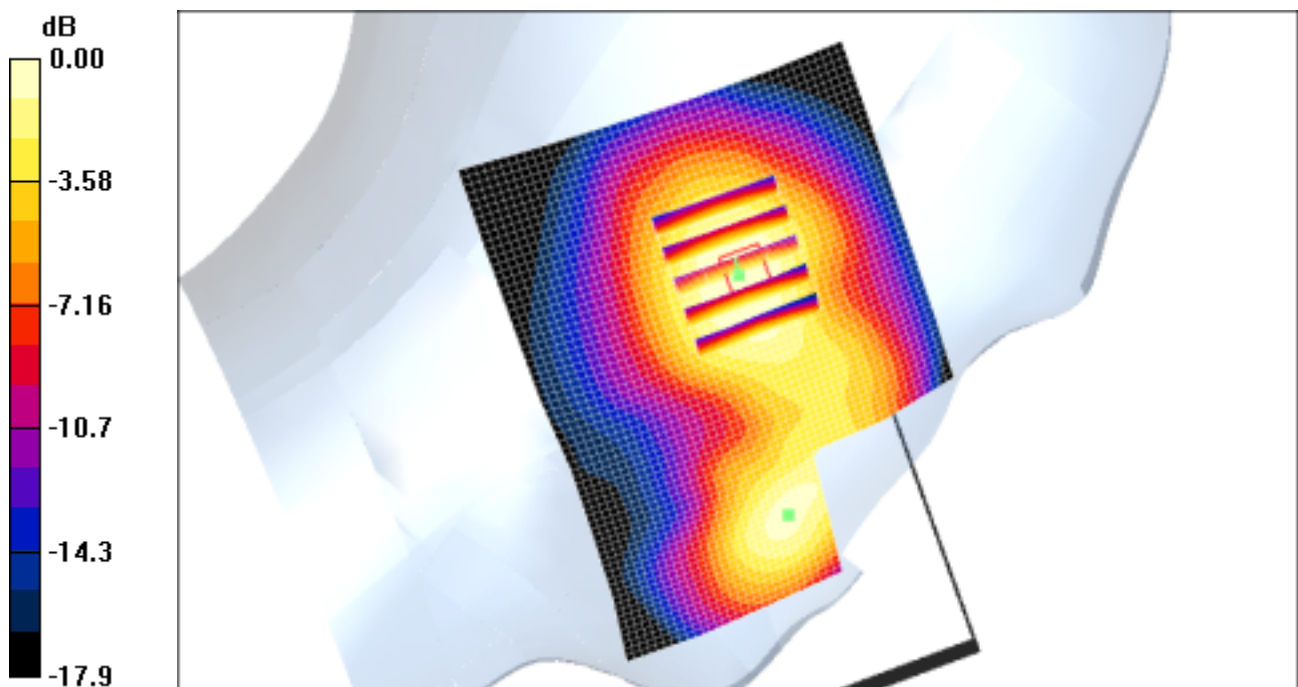
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.66 V/m; Power Drift = -0.091 dB

Peak SAR (extrapolated) = 0.649 W/kg

**SAR(1 g) = 0.457 mW/g**

Maximum value of SAR (measured) = 0.483 mW/g



0 dB = 0.483mW/g

**SAMSUNG FCC ID : A3LSGHX497 1900MHz GSM1900 Head SAR**

**DUT: SGH-X497; Serial: FC-088-G**

**Program Name: SGH-X497 GSM1900 Left (Job No. : FC-088)**

**Procedure Name: Ear/Tilt, Ch.661, Ant.Fixed, Bat.Standard**

**Procedure Notes: Meas.Tissue Temp(celsius)-20.9; Test Date-01/Jul/2005 [OET Bulletin 65-Supplement C, July 2001]**

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

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.37$  mho/m;  $\epsilon_r = 38.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(8.29, 8.29, 8.29); Calibrated: 2004-12-15

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn468; Calibrated: 2004-12-07

- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1248

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

**Ear/Tilt, Ch.661, Ant.Fixed, Bat.Standard/Area Scan (51x71x1):** Measurement grid:  
dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.190 mW/g

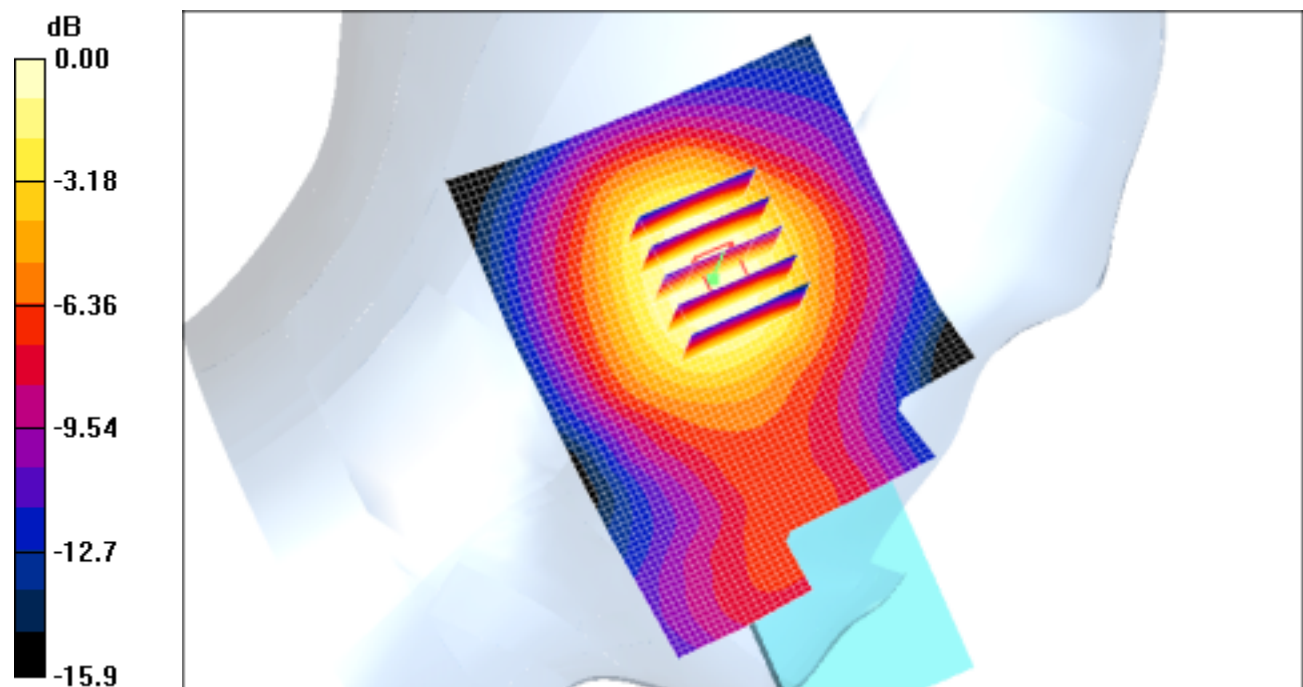
**Ear/Tilt, Ch.661, Ant.Fixed, Bat.Standard/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.22 V/m; Power Drift = -0.111 dB

Peak SAR (extrapolated) = 0.233 W/kg

**SAR(1 g) = 0.160 mW/g**

Maximum value of SAR (measured) = 0.169 mW/g



0 dB = 0.169mW/g

**SAMSUNG FCC ID : A3LSGHX497 835MHz GPRS850 Body SAR**

**DUT: SGH-X497(body); Serial: FC-088-G**

**Program Name: SGH-X497 GSM850 Body (Job No. : FC-088)**

**Procedure Name: Body, Ch.190, Ant.Fixed, Bat.Standard**

**Procedure Notes: Meas.Tissue Temp(celsius)-21.7;Test Date-01/Jul/2005[OET Bulletin 65-Supplement C, July 2001]**

Communication System: GSM 850 (GPRS); Frequency: 836.6 MHz;Duty Cycle: 1:4.15

Medium parameters used:  $f = 836.6$  MHz;  $\sigma = 0.96$  mho/m;  $\epsilon_r = 53.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(9.83, 9.83, 9.83); Calibrated: 2004-12-15

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn468; Calibrated: 2004-12-07

- Phantom: SAM 835/900 MHz; Type: SAM; Serial: TP-1247

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

**Body, Ch.190, Ant.Fixed, Bat.Standard/Area Scan (51x71x1):** Measurement grid:

dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 1.60 mW/g

**Body, Ch.190, Ant.Fixed, Bat.Standard/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

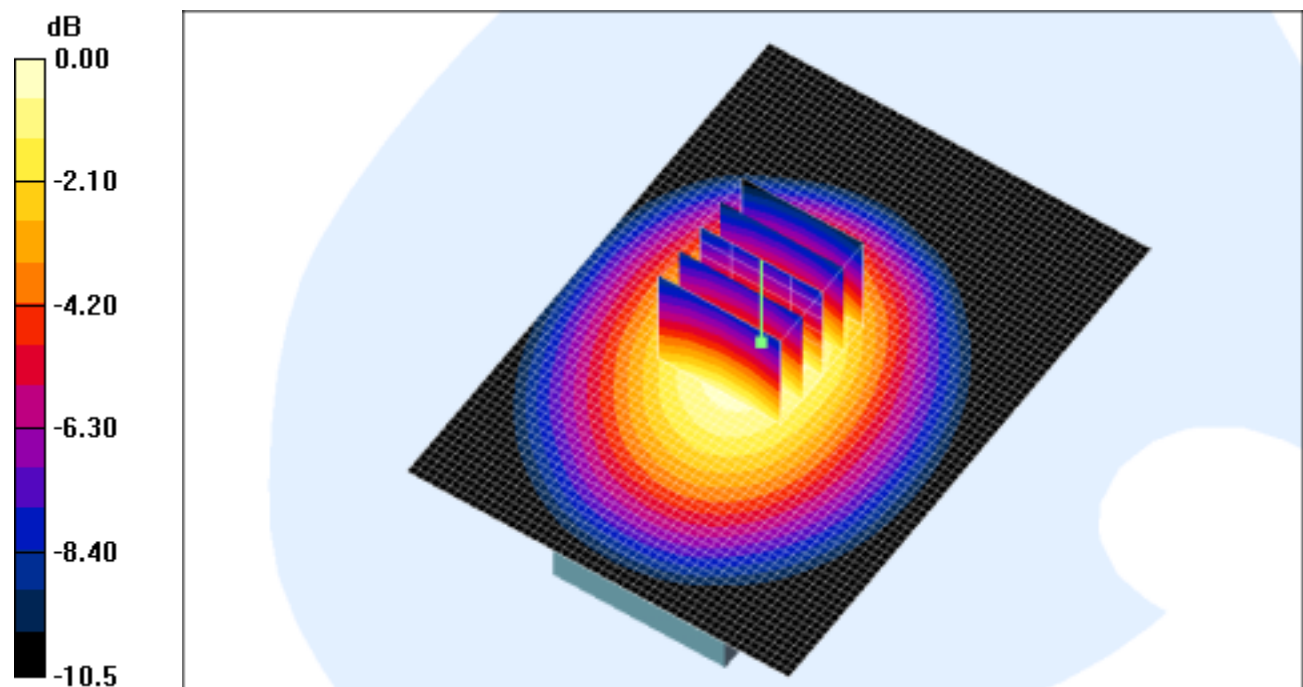
dx=8mm, dy=8mm, dz=5mm

Reference Value = 33.1 V/m; Power Drift = -0.046 dB

Peak SAR (extrapolated) = 1.96 W/kg

**SAR(1 g) = 1.42 mW/g**

Maximum value of SAR (measured) = 1.51 mW/g



0 dB = 1.51mW/g

**SAMSUNG FCC ID : A3LSGHX490 1900MHz GPRS1900 Body SAR**

**DUT: SGH-X497 (Body); Serial: FC-088-G**

**Program Name: SGH-X497 GSM1900 Body (Job No. : FC-088)**

**Procedure Name: Body, Ch.810, Ant.Fixed, Bat.Standard**

**Procedure Notes: Meas.Tissue Temp(celsius)-21.8;Test Date-01/Jul/2005[OET Bulletin 65-Supplement C, July 2001]**

Communication System: Body GPRS ; Frequency: 1909.8 MHz;Duty Cycle: 1:4.15

Medium parameters used:  $f = 1909.8$  MHz;  $\sigma = 1.51$  mho/m;  $\epsilon_r = 51.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(7.76, 7.76, 7.76); Calibrated: 2004-12-15

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn468; Calibrated: 2004-12-07

- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1248

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

**Body, Ch.810, Ant.Fixed, Bat.Standard/Area Scan (51x71x1):** Measurement grid:  
dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.342 mW/g

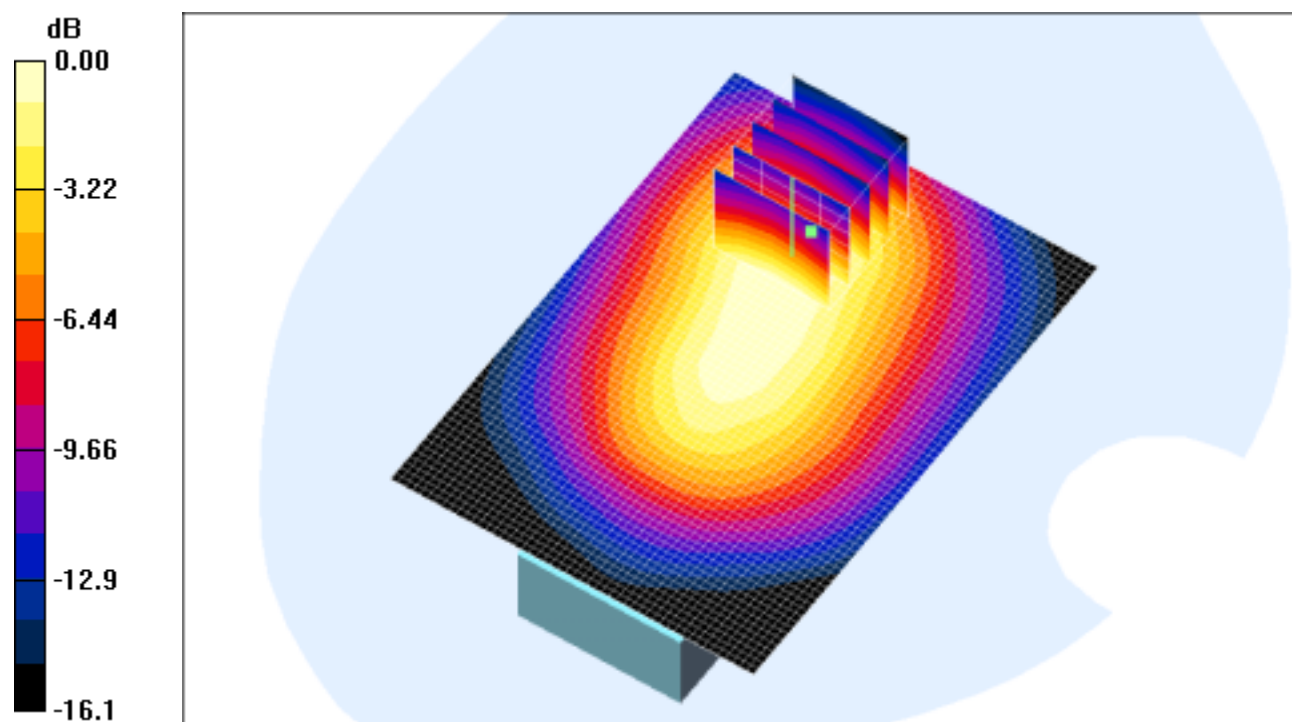
**Body, Ch.810, Ant.Fixed, Bat.Standard/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.0 V/m; Power Drift = -0.054 dB

Peak SAR (extrapolated) = 0.446 W/kg

**SAR(1 g) = 0.295 mW/g**

Maximum value of SAR (measured) = 0.320 mW/g



0 dB = 0.320mW/g

**SAMSUNG FCC ID : A3LSGHX497 835MHz GPRS850 Head SAR**

**DUT: SGH-X497; Serial: FC-088-G**

**Program Name: SGH-X497 GSM850 Left (Job No. : FC-088)**

**Procedure Name: Cheek/Touch, Ch.128, Ant.Fixed, Bat.Standard**

**Procedure Notes: Meas.Tissue Temp(celsius)-21.5; Test Date-01/Jul/2005 [OET Bulletin 65-Supplement C, July 2001]**

Communication System: GSM850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3

Medium parameters used:  $f = 824.2$  MHz;  $\sigma = 0.91$  mho/m;  $\epsilon_r = 40.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(9.24, 9.24, 9.24); Calibrated: 2004-12-15

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn468; Calibrated: 2004-12-07

- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1248

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

**Cheek/Touch, Ch.128, Ant.Fixed, Bat.Standard/Area Scan (51x71x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 1.46 mW/g

**Cheek/Touch, Ch.128, Ant.Fixed, Bat.Standard/Zoom Scan (5x5x7)/Cube 0:**

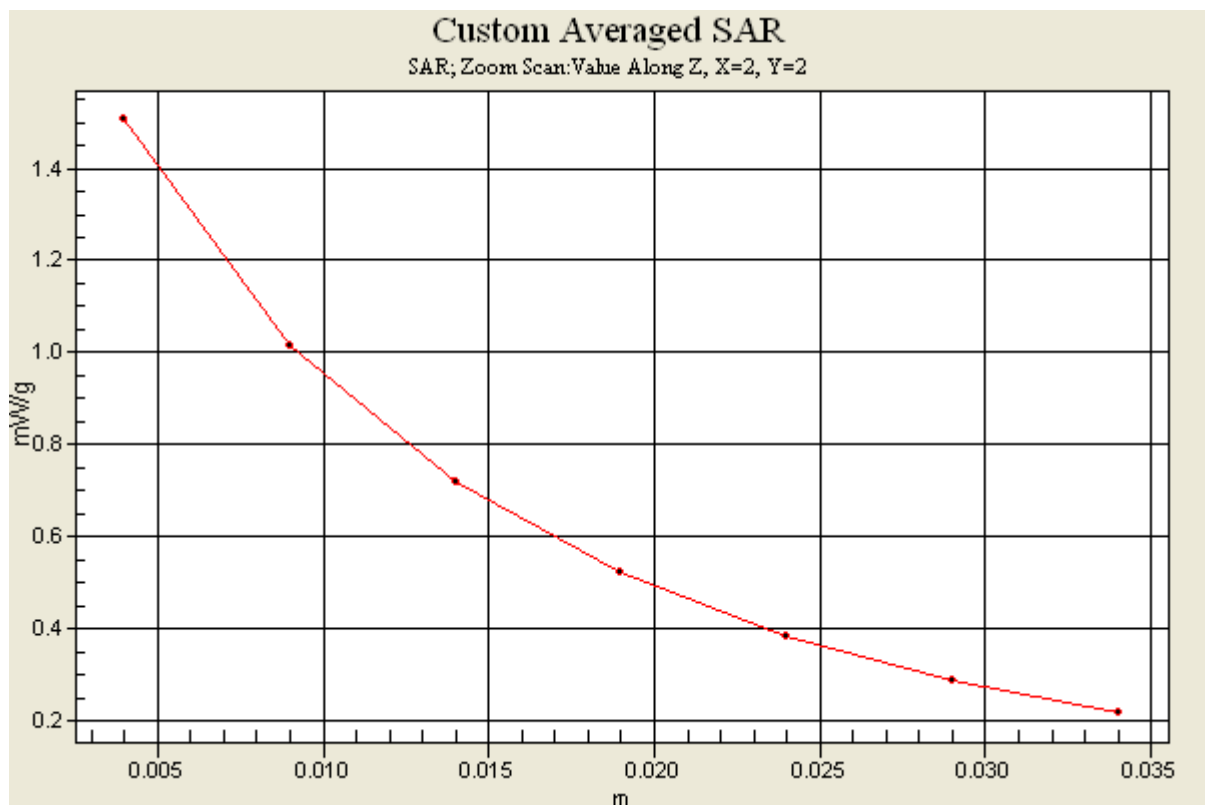
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.3 V/m; Power Drift = 0.078 dB

Peak SAR (extrapolated) = 2.16 W/kg

**SAR(1 g) = 1.4 mW/g**

Maximum value of SAR (measured) = 1.51 mW/g



**SAMSUNG FCC ID : A3LSGHX497 1900MHz GSM1900 Head SAR**

**DUT: SGH-X497; Serial: FC-088-G**

**Program Name: SGH-X497 GSM1900 Right (Job No. : FC-088)**

**Procedure Name: Cheek/Touch, Ch.810, Ant.Fixed, Bat.Standard**

**Procedure Notes: Meas.Tissue Temp(celsius)-20.9; Test Date-01/Jul/2005 [OET Bulletin 65-Supplement C, July 2001]**

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

Medium parameters used:  $f = 1909.8$  MHz;  $\sigma = 1.37$  mho/m;  $\epsilon_r = 38.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(8.29, 8.29, 8.29); Calibrated: 2004-12-15

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn468; Calibrated: 2004-12-07

- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1248

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

**Cheek/Touch, Ch.810, Ant.Fixed, Bat.Standard/Area Scan (51x71x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.578 mW/g

**Cheek/Touch, Ch.810, Ant.Fixed, Bat.Standard/Zoom Scan (5x5x7)/Cube 0:**

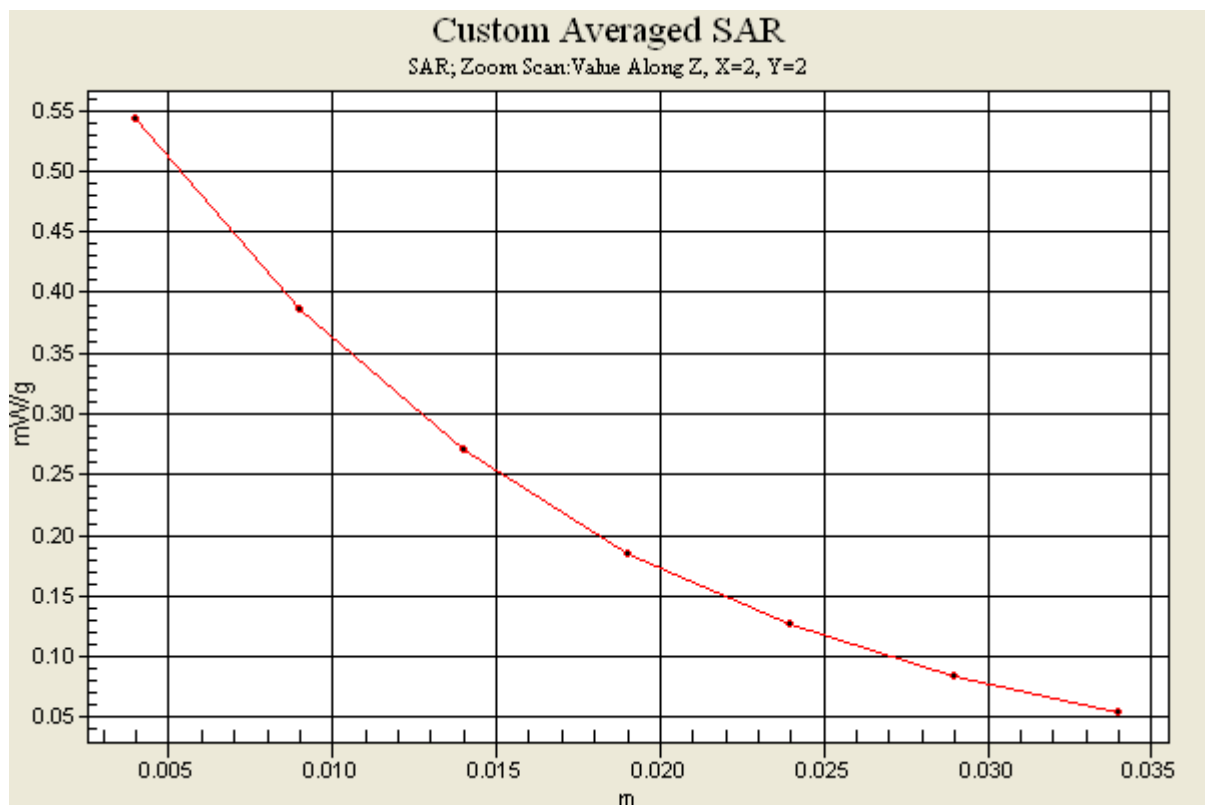
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.40 V/m; Power Drift = -0.100 dB

Peak SAR (extrapolated) = 0.727 W/kg

**SAR(1 g) = 0.510 mW/g**

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



**SAMSUNG FCC ID : A3LSGHX497 835MHz GPRS850 Body SAR**

**DUT: SGH-X497(body); Serial: FC-088-G**

**Program Name: SGH-X497 GSM850 Body (Job No. : FC-088)**

**Procedure Name: Body, Ch.190, Ant.Fixed, Bat.Standard**

**Procedure Notes: Meas.Tissue Temp(celsius)-21.7; Test Date-01/Jul/2005[OET Bulletin 65-Supplement C, July 2001]**

Communication System: GSM 850 (GPRS); Frequency: 836.6 MHz; Duty Cycle: 1:4.15

Medium parameters used:  $f = 836.6$  MHz;  $\sigma = 0.96$  mho/m;  $\epsilon_r = 53.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(9.83, 9.83, 9.83); Calibrated: 2004-12-15

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn468; Calibrated: 2004-12-07

- Phantom: SAM 835/900 MHz; Type: SAM; Serial: TP-1247

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

**Body, Ch.190, Ant.Fixed, Bat.Standard/Area Scan (51x71x1):** Measurement grid:

$dx=20$ mm,  $dy=20$ mm

Maximum value of SAR (interpolated) = 1.60 mW/g

**Body, Ch.190, Ant.Fixed, Bat.Standard/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

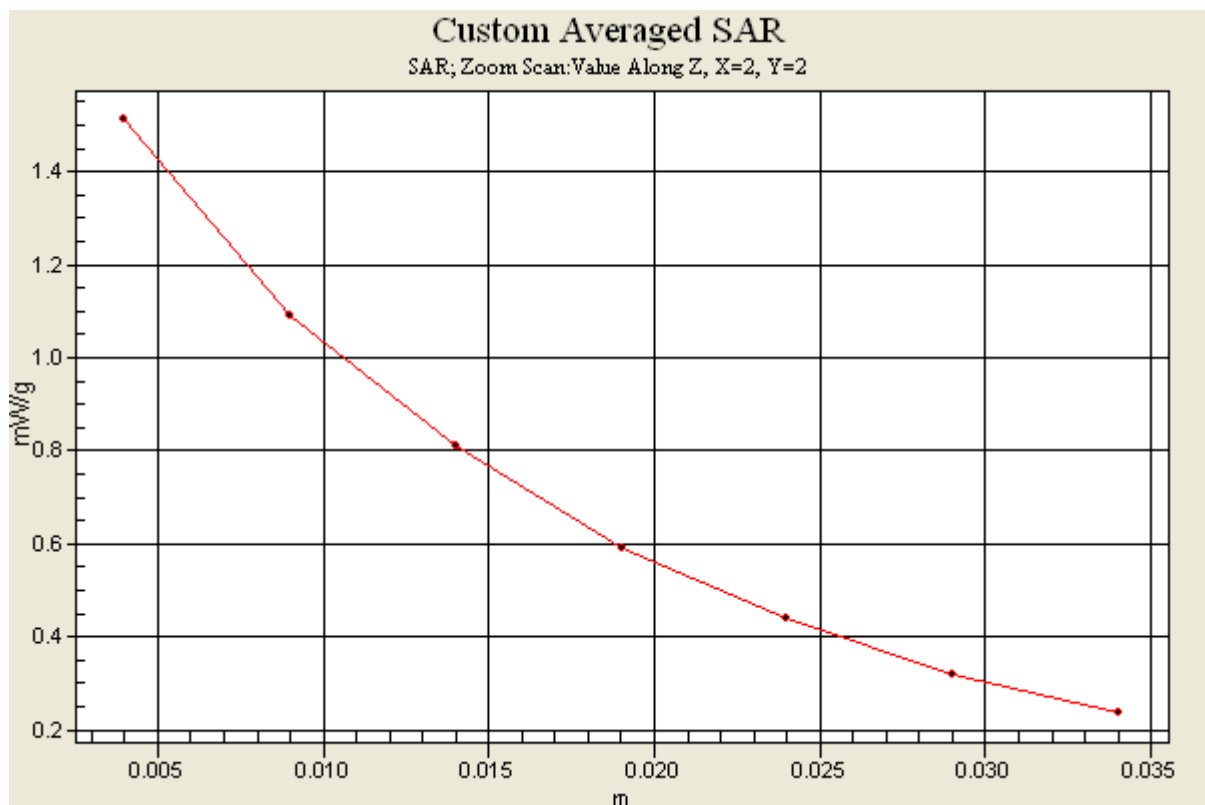
$dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 33.1 V/m; Power Drift = -0.046 dB

Peak SAR (extrapolated) = 1.96 W/kg

**SAR(1 g) = 1.42 mW/g**

Maximum value of SAR (measured) = 1.51 mW/g



**SAMSUNG FCC ID : A3LSGHX490 1900MHz GPRS1900 Body SAR**

**DUT: SGH-X497 (Body); Serial: FC-088-G**

**Program Name: SGH-X497 GSM1900 Body (Job No. : FC-088)**

**Procedure Name: Body, Ch.810, Ant.Fixed, Bat.Standard**

**Procedure Notes: Meas.Tissue Temp(celsius)-21.8; Test Date-01/Jul/2005 [OET Bulletin 65-Supplement C, July 2001]**

Communication System: Body GPRS ; Frequency: 1909.8 MHz; Duty Cycle: 1:4.15

Medium parameters used:  $f = 1909.8$  MHz;  $\sigma = 1.51$  mho/m;  $\epsilon_r = 51.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(7.76, 7.76, 7.76); Calibrated: 2004-12-15

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn468; Calibrated: 2004-12-07

- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1248

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

**Body, Ch.810, Ant.Fixed, Bat.Standard/Area Scan (51x71x1):** Measurement grid:  
dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.342 mW/g

**Body, Ch.810, Ant.Fixed, Bat.Standard/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.0 V/m; Power Drift = -0.054 dB

Peak SAR (extrapolated) = 0.446 W/kg

**SAR(1 g) = 0.295 mW/g**

Maximum value of SAR (measured) = 0.320 mW/g

