

APPENDIX F

Plots of The SAR Measurements

SAMSUNG FCC ID : A3LSGHD300 1900MHz GSM1900 Head SAR

DUT: SGH-D300; Serial: FC-047-B

Program Name: SGH-D300 GSM1900 Right (Job No. : FD-047)

Procedure Name: Cheek/Touch, Ch.512, Ant.Intenna, Bat.Standard

Procedure Notes: Meas. Ambient Temp(celsius)-22.3, Tissue Temp(celsius)-22.1; Test Date-29/Mar/2006 [OET Bulletin 65-Supplement C, July 2001]

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

Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 39.2$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(8.04, 8.04, 8.04); Calibrated: 2005-11-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn468; Calibrated: 2006-01-27
- Phantom: PHANTOM #1; Type: SAM; Serial: TP-1143
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Cheek/Touch, Ch.512, Ant.Intenna, Bat.Standard/Area Scan (51x71x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.438 mW/g

Cheek/Touch, Ch.512, Ant.Intenna, Bat.Standard/Zoom Scan 2 (5x5x7)/Cube 0:

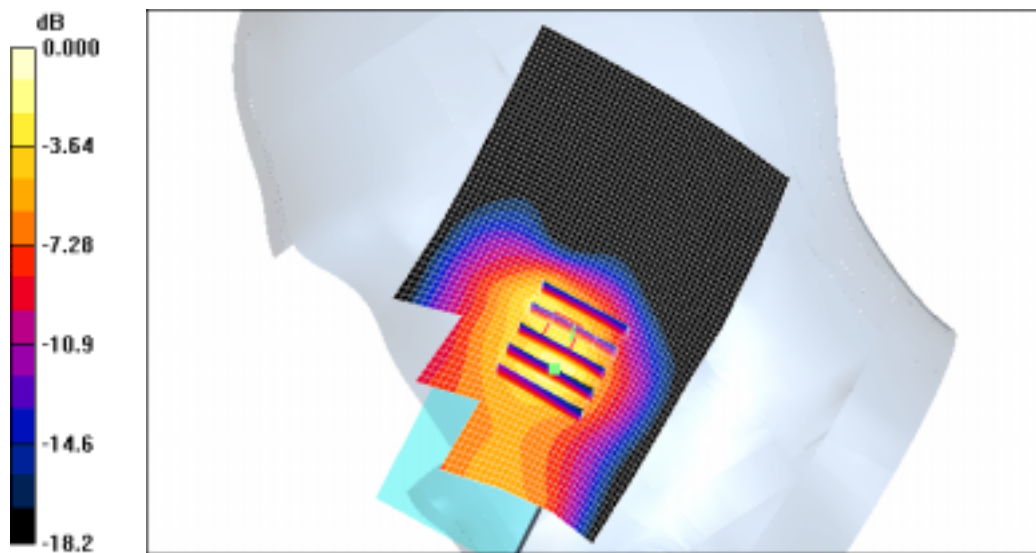
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.77 V/m; Power Drift = -0.155 dB

Peak SAR (extrapolated) = 0.969 W/kg

SAR(1 g) = 0.548 mW/g

Maximum value of SAR (measured) = 0.620 mW/g



0 dB = 0.620mW/g

SAMSUNG FCC ID : A3LSGHD300 1900MHz GSM1900 Head SAR

DUT: SGH-D300; Serial: FC-047-B

Program Name: SGH-D300 GSM1900 Right (Job No. : FD-047)

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

Procedure Notes: Meas. Ambient Temp(celsius)-22.3, Tissue Temp(celsius)-22.1; Test Date-29/Mar/2006 [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; $\sigma = 1.43$ mho/m; $\epsilon_r = 39.2$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(8.04, 8.04, 8.04); Calibrated: 2005-11-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn468; Calibrated: 2006-01-27
- Phantom: PHANTOM #1; Type: SAM; Serial: TP-1143
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

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

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

Maximum value of SAR (interpolated) = 0.072 mW/g

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

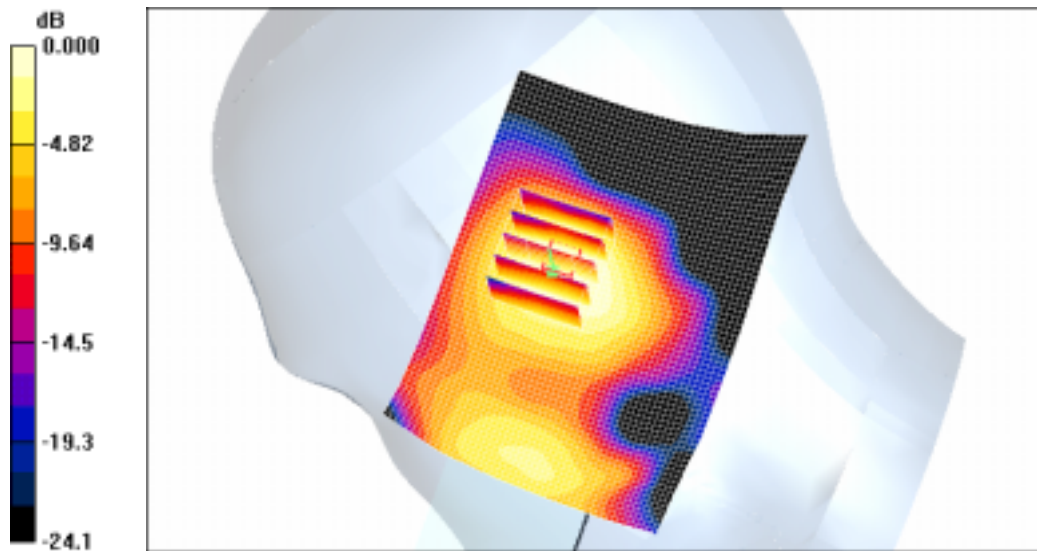
grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 6.24 V/m; Power Drift = -0.044 dB

Peak SAR (extrapolated) = 0.109 W/kg

SAR(1 g) = 0.068 mW/g

Maximum value of SAR (measured) = 0.071 mW/g



0 dB = 0.071mW/g

SAMSUNG FCC ID : A3LSGHD300 1900MHz GSM1900 Head SAR

DUT: SGH-D300; Serial: FC-047-B

Program Name: SGH-D300 GSM1900 Left (Job No. : FD-047)

Procedure Name: Cheek/Touch, Ch.661, Ant.Intenna, Bat.Standard

Procedure Notes: Meas. Ambient Temp(celsius)-22.3, Tissue Temp(celsius)-22.1; Test Date-29/Mar/2006 [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; $\sigma = 1.43$ mho/m; $\epsilon_r = 39.2$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(8.04, 8.04, 8.04); Calibrated: 2005-11-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn468; Calibrated: 2006-01-27
- Phantom: PHANTOM #1; Type: SAM; Serial: TP-1143
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Cheek/Touch, Ch.661, Ant.Intenna, Bat.Standard/Area Scan (51x71x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.419 mW/g

Cheek/Touch, Ch.661, Ant.Intenna, Bat.Standard/Zoom Scan (5x5x7)/Cube 0:

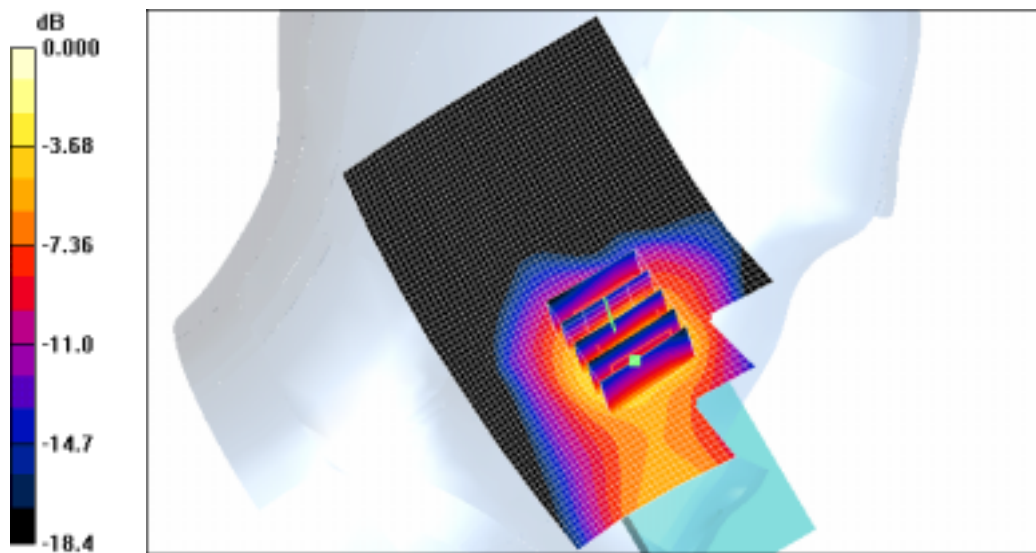
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.36 V/m; Power Drift = -0.004 dB

Peak SAR (extrapolated) = 1.21 W/kg

SAR(1 g) = 0.606 mW/

Maximum value of SAR (measured) = 0.716 mW/g



0 dB = 0.716mW/g

SAMSUNG FCC ID : A3LSGHD300 1900MHz GSM1900 Head SAR

DUT: SGH-D300; Serial: FC-047-B

Program Name: SGH-D300 GSM1900 Left (Job No. : FD-047)

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

Procedure Notes: Meas. Ambient Temp(celsius)-22.3, Tissue Temp(celsius)-22.1; Test Date-29/Mar/2006 [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; $\sigma = 1.43$ mho/m; $\epsilon_r = 39.2$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(8.04, 8.04, 8.04); Calibrated: 2005-11-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn468; Calibrated: 2006-01-27
- Phantom: PHANTOM #1; Type: SAM; Serial: TP-1143
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

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

Reference Value = 5.36 V/m; Power Drift = 0.150 dB

Peak SAR (extrapolated) = 0.082 W/kg

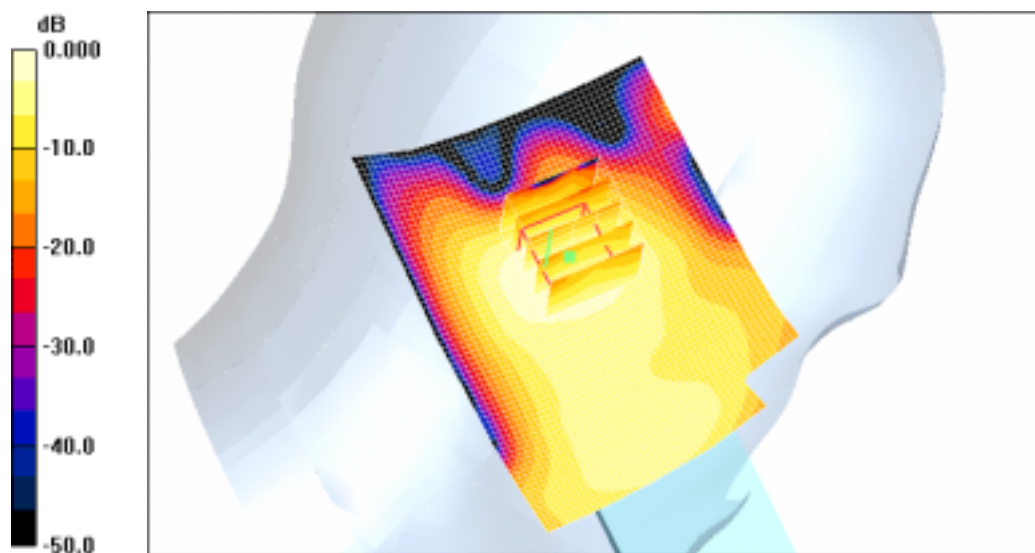
SAR(1 g) = 0.054 mW/g

Maximum value of SAR (measured) = 0.058 mW/g

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

dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.082 mW/g



0 dB = 0.082mW/g

SAMSUNG FCC ID : A3LSGHD300 1900MHz GSM1900 Head SAR

DUT: SGH-D300; Serial: FC-047-B

Program Name: SGH-D300 GSM1900 Left (Job No. : FD-047)

Procedure Name: Cheek/Touch, Ch.661, Ant.Intenna, Bat.Standard With BT ON

Procedure Notes: Meas. Ambient Temp(celsius)-22.3, Tissue Temp(celsius)-22.1; Test Date-29/Mar/2006 [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; $\sigma = 1.43$ mho/m; $\epsilon_r = 39.2$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(8.04, 8.04, 8.04); Calibrated: 2005-11-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn468; Calibrated: 2006-01-27
- Phantom: PHANTOM #1; Type: SAM; Serial: TP-1143
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Cheek/Touch, Ch.661, Ant.Intenna, Bat.Standard With BT ON/Area Scan (51x71x1):

Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.418 mW/g

Cheek/Touch, Ch.661, Ant.Intenna, Bat.Standard With BT ON/Zoom Scan (5x5x7)/Cube

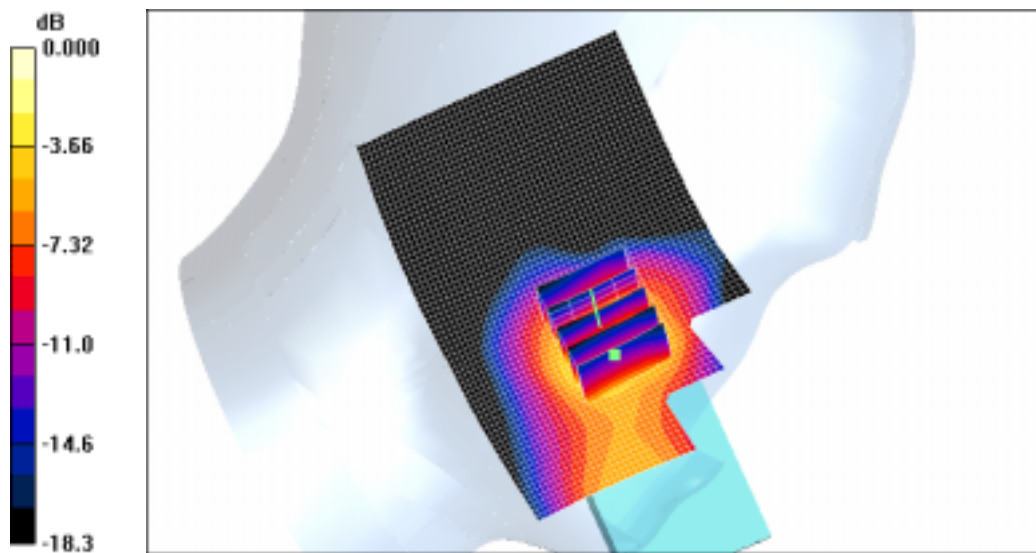
0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.12 V/m; Power Drift = -0.014 dB

Peak SAR (extrapolated) = 1.23 W/kg

SAR(1 g) = 0.611 mW/g

Maximum value of SAR (measured) = 0.721 mW/g



0 dB = 0.721mW/g

SAMSUNG FCC ID : A3LSGHD300 1900MHz GSM1900 Head SAR

DUT: SGH-D300; Serial: FC-047-B

Program Name: SGH-D300 GSM1900 Left (Job No. : FD-047)

Procedure Name: Cheek/Touch, Ch.661, Ant.Intenna, Bat.Standard With BT ON

Procedure Notes: Meas. Ambient Temp(celsius)-22.3, Tissue Temp(celsius)-22.1; Test Date-29/Mar/2006 [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; $\sigma = 1.43$ mho/m; $\epsilon_r = 39.2$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(8.04, 8.04, 8.04); Calibrated: 2005-11-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn468; Calibrated: 2006-01-27
- Phantom: PHANTOM #1; Type: SAM; Serial: TP-1143
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Cheek/Touch, Ch.661, Ant.Intenna, Bat.Standard With BT ON/Area Scan (51x71x1):

Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.418 mW/g

Cheek/Touch, Ch.661, Ant.Intenna, Bat.Standard With BT ON/Zoom Scan (5x5x7)/Cube

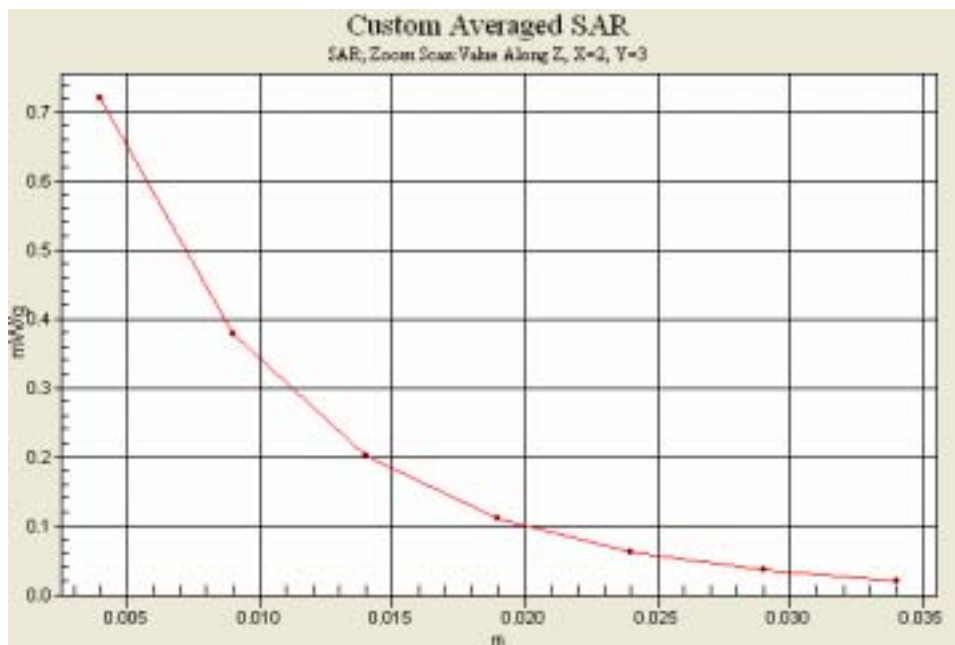
0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.12 V/m; Power Drift = -0.014 dB

Peak SAR (extrapolated) = 1.23 W/kg

SAR(1 g) = 0.611 mW/g

Maximum value of SAR (measured) = 0.721 mW/g



SAMSUNG FCC ID : A3LSGHD300 1900MHz GPRS1900 Body SAR

DUT: SGH-D300(Body); Serial: FD-047-B

Program Name: SGH-D300 GSM1900 Body (Job No. : FD-047)

Procedure Name: Body, Ch.512, Ant.Intenna, Bat.Standard

Procedure Notes: Meas. Ambient Temp(celsius)-22.3, Tissue Temp(celsius)-22.1; Test Date-29/Mar/2006 [OET Bulletin 65-Supplement C, July 2001]

Communication System: Body GPRS ; Frequency: 1850.2 MHz;Duty Cycle: 1:4.15

Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.58$ mho/m; $\epsilon_r = 52.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(7.48, 7.48, 7.48); Calibrated: 2005-11-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn468; Calibrated: 2006-01-27
- Phantom: PHANTOM #2; Type: SAM; Serial: TP-1141
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Body, Ch.512, Ant.Intenna, Bat.Standard/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

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

Reference Value = 18.7 V/m; Power Drift = -0.181 dB

Peak SAR (extrapolated) = 1.40 W/kg

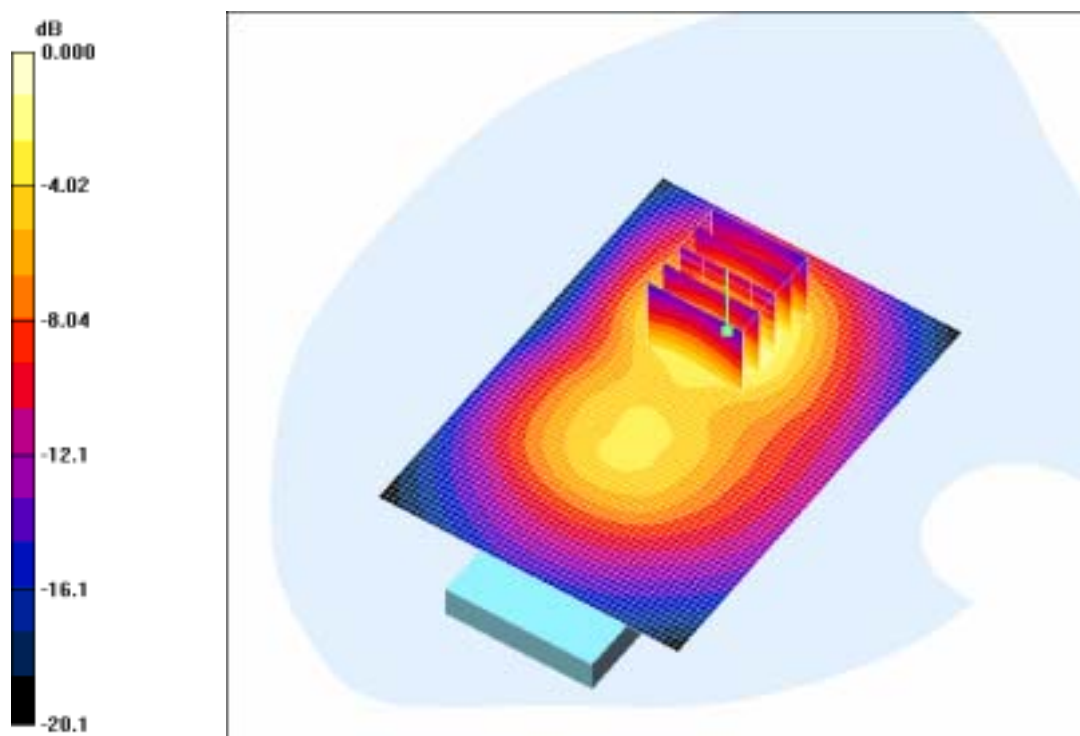
SAR(1 g) = 0.932 mW/g

Maximum value of SAR (measured) = 1.03 mW/g

Body, Ch.512, Ant.Intenna, Bat.Standard/Area Scan (51x71x1): Measurement grid:

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

Maximum value of SAR (interpolated) = 1.02 mW/g



0 dB = 1.02mW/g

SAMSUNG FCC ID : A3LSGHD300 1900MHz GSM1900 Head SAR

DUT: SGH-D300(Body); Serial: FD-047-B

Program Name: SGH-D300 GSM1900 Body (Job No. : FD-047)

Procedure Name: Body, Ch.512, Ant.Intenna, Bat.Standard With BT ON

Procedure Notes: Meas. Ambient Temp(celsius)-22.3, Tissue Temp(celsius)-22.1; Test Date-29/Mar/2006 [OET Bulletin 65-Supplement C, July 2001]

Communication System: Body GPRS ; Frequency: 1850.2 MHz;Duty Cycle: 1:4.15

Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.58$ mho/m; $\epsilon_r = 52.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(7.48, 7.48, 7.48); Calibrated: 2005-11-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn468; Calibrated: 2006-01-27
- Phantom: PHANTOM #2; Type: SAM; Serial: TP-1141
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Body, Ch.512, Ant.Intenna, Bat.Standard With BT ON/Area Scan (51x71x1):

Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.724 mW/g

Body, Ch.512, Ant.Intenna, Bat.Standard With BT ON/Zoom Scan (5x5x7)/Cube 0:

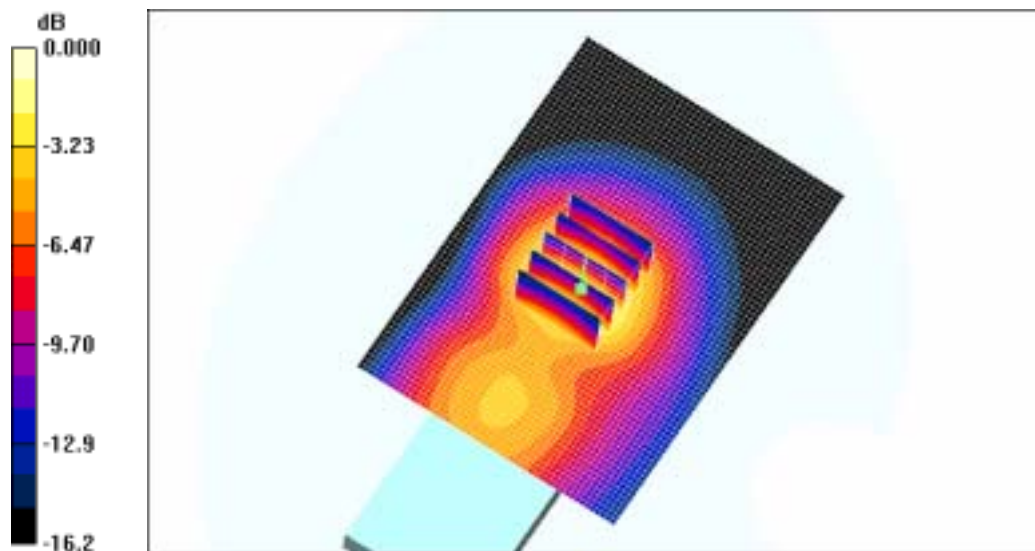
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.5 V/m; Power Drift = -0.048 dB

Peak SAR (extrapolated) = 1.06 W/kg

SAR(1 g) = 0.680 mW/g

Maximum value of SAR (measured) = 0.738 mW/g



0 dB = 0.738mW/g

SAMSUNG FCC ID : A3LSGHD300 1900MHz GPRS1900 Body SAR

DUT: SGH-D300(Body); Serial: FD-047-B

Program Name: SGH-D300 GSM1900 Body (Job No. : FD-047)

Procedure Name: Body, Ch.512, Ant.Intenna, Bat.Standard

Procedure Notes: Meas. Ambient Temp(celsius)-22.3, Tissue Temp(celsius)-22.1; Test Date-29/Mar/2006 [OET Bulletin 65-Supplement C, July 2001]

Communication System: Body GPRS ; Frequency: 1850.2 MHz;Duty Cycle: 1:4.15

Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.58$ mho/m; $\epsilon_r = 52.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(7.48, 7.48, 7.48); Calibrated: 2005-11-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn468; Calibrated: 2006-01-27
- Phantom: PHANTOM #2; Type: SAM; Serial: TP-1141
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Body, Ch.512, Ant.Intenna, Bat.Standard/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

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

Reference Value = 18.7 V/m; Power Drift = -0.181 dB

Peak SAR (extrapolated) = 1.40 W/kg

SAR(1 g) = 0.932 mW/g; SAR(10 g) = 0.550 mW/g

Maximum value of SAR (measured) = 1.03 mW/g

Body, Ch.512, Ant.Intenna, Bat.Standard/Area Scan (51x71x1): Measurement grid:

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

Maximum value of SAR (interpolated) = 1.02 mW/g



SAMSUNG FCC ID : A3LSGHD300 1900MHz GPRS1900 Body SAR
DUT: SGH-D300(Body); Serial: FD-047-B
Program Name: SGH-D300 GSM1900 Body (Job No. : FD-047)
Procedure Name: Body, Ch.512, Ant.Intenna, Bat.Standard With BT ON
Procedure Notes: Meas. Ambient Temp(celsius)-22.3, Tissue Temp(celsius)-22.1; Test Date-29/Mar/2006 [OET Bulletin 65-Supplement C, July 2001]
 Communication System: Body GPRS ; Frequency: 1850.2 MHz;Duty Cycle: 1:4.15
 Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.58$ mho/m; $\epsilon_r = 52.5$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section
 DASY4 Configuration:
 - Probe: EX3DV4 - SN3537; ConvF(7.48, 7.48, 7.48); Calibrated: 2005-11-22
 - Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn468; Calibrated: 2006-01-27
 - Phantom: PHANTOM #2; Type: SAM; Serial: TP-1141
 - Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Body, Ch.512, Ant.Intenna, Bat.Standard With BT ON/Area Scan (51x71x1):

Measurement grid: dx=20mm, dy=20mm
 Maximum value of SAR (interpolated) = 0.724 mW/g

Body, Ch.512, Ant.Intenna, Bat.Standard With BT ON/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
 Reference Value = 15.5 V/m; Power Drift = -0.048 dB
 Peak SAR (extrapolated) = 1.06 W/kg
SAR(1 g) = 0.680 mW/g
 Maximum value of SAR (measured) = 0.738 mW/g

