

SAMSUNG FCC ID : A3LSPHW2500 GSM1900 Head SAR

DUT: SPH-W2500(Down); Serial: FE-005-A

Program Name: SPH-W2500 GSM1900 Right Slide Down(Job No. : FE-005)

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

Meas.Tissue Temp(celsius)-21.6, Ambient Temp-21.8;Test Date-06/Jan/2007

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 39$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(8.32, 8.32, 8.32); Calibrated: 2006-11-23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2006-07-17
- Phantom: SAM PHANTOM #1; Type: SAM; Serial: TP-1247
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

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

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

Reference Value = 20.2 V/m; Power Drift = -0.029 dB

Peak SAR (extrapolated) = 0.771 W/kg

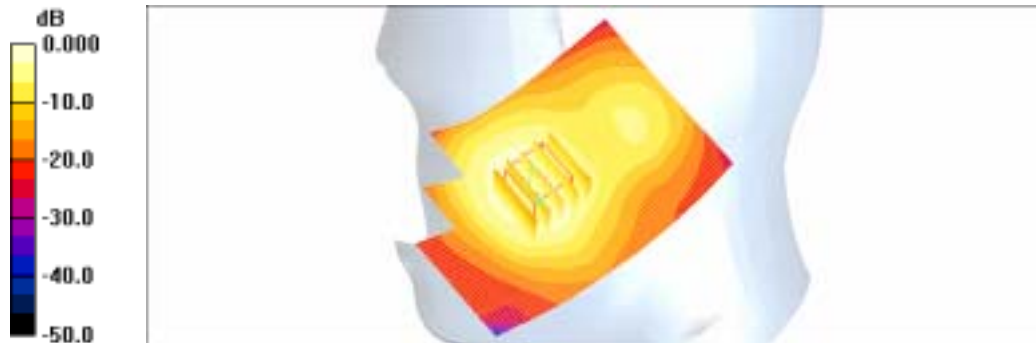
SAR(1 g) = 0.533 mW/g

Maximum value of SAR (measured) = 0.563 mW/g

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

grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.585 mW/g



0 dB = 0.585mW/g

SAMSUNG FCC ID : A3LSPHW2500 GSM1900 Head SAR

DUT: SPH-W2500(Down); Serial: FE-005-A

Program Name: SPH-W2500 GSM1900 Right Slide Down(Job No. : FE-005)

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

Meas.Tissue Temp(celsius)-21.6, Ambient Temp-21.8;Test Date-06/Jan/2007

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 39$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(8.32, 8.32, 8.32); Calibrated: 2006-11-23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2006-07-17
- Phantom: SAM PHANTOM #1; Type: SAM; Serial: TP-1247
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

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

dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.208 mW/g

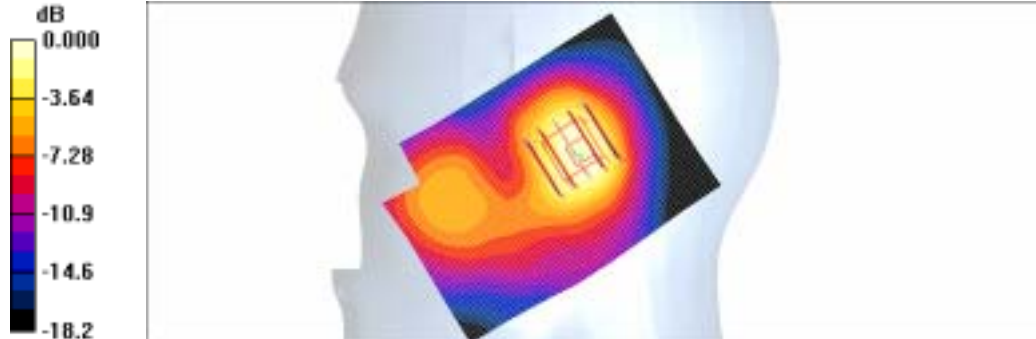
Ear/Tilt, Ch.661, Ant.Intenna, Bat.Standard/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.92 V/m; Power Drift = -0.040 dB

Peak SAR (extrapolated) = 0.227 W/kg

SAR(1 g) = 0.153 mW/g

Maximum value of SAR (measured) = 0.167 mW/g



0 dB = 0.167mW/g

SAMSUNG FCC ID : A3LSPHW2500 GSM1900 Head SAR

DUT: SPH-W2500(Down); Serial: FE-005-A

Program Name: SPH-W2500 GSM1900 Left Slide Down (Job No. : FE-005)

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

Meas.Tissue Temp(celsius)-21.6, Ambient Temp-21.8;Test Date-06/Jan/2007

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

Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 39$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(8.32, 8.32, 8.32); Calibrated: 2006-11-23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2006-07-17
- Phantom: SAM PHANTOM #1; Type: SAM; Serial: TP-1247
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Cheek/Touch, Ch.512, Ant.Intenna, Bat.Standard with BT ON/Area Scan (51x71x1):

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

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

Cheek/Touch, Ch.512, Ant.Intenna, Bat.Standard with BT ON/Zoom Scan (5x5x7)/Cube

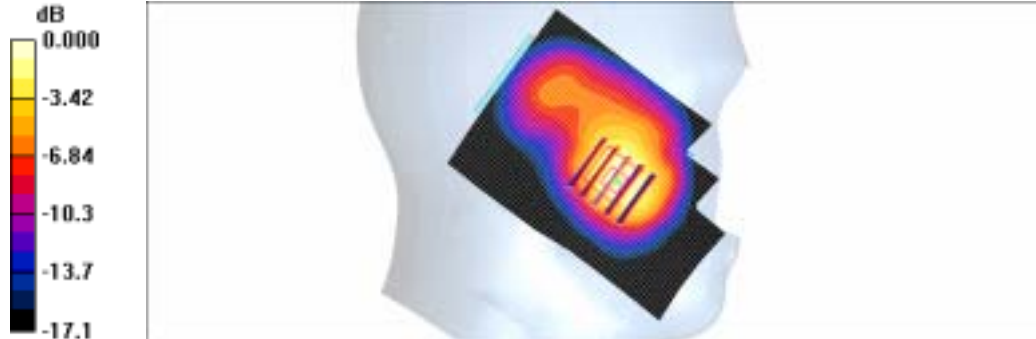
0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.6 V/m; Power Drift = -0.046 dB

Peak SAR (extrapolated) = 1.05 W/kg

SAR(1 g) = 0.665 mW/g

Maximum value of SAR (measured) = 0.733 mW/g



0 dB = 0.733mW/g

SAMSUNG FCC ID : A3LSPHW2500 GSM1900 Head SAR

DUT: SPH-W2500(Down); Serial: FE-005-A

Program Name: SPH-W2500 GSM1900 Left Slide Down (Job No. : FE-005)

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

Meas.Tissue Temp(celsius)-21.6, Ambient Temp-21.8;Test Date-06/Jan/2007

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 39$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(8.32, 8.32, 8.32); Calibrated: 2006-11-23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2006-07-17
- Phantom: SAM PHANTOM #1; Type: SAM; Serial: TP-1247
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

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

Reference Value = 6.35 V/m; Power Drift = 0.120 dB

Peak SAR (extrapolated) = 0.306 W/kg

SAR(1 g) = 0.198 mW/g

Maximum value of SAR (measured) = 0.210 mW/g

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

dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.203 mW/g



0 dB = 0.203mW/g

SAMSUNG FCC ID : A3LSPHW2500 GSM1900 Head SAR

DUT: SPH-W2500(Up); Serial: FE-005-A

Program Name: SPH-W2500 GSM1900 Right Slide Up(Job No. : FE-005)

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

Meas.Tissue Temp(celsius)-21.6, Ambient Temp-21.8;Test Date-06/Jan/2007

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

Medium parameters used: $f = 1850.2 \text{ MHz}$; $\sigma = 1.41 \text{ mho/m}$; $\epsilon_r = 39$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(8.32, 8.32, 8.32); Calibrated: 2006-11-23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2006-07-17
- Phantom: SAM PHANTOM #1; Type: SAM; Serial: TP-1247
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

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

Maximum value of SAR (interpolated) = 0.266 mW/g

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

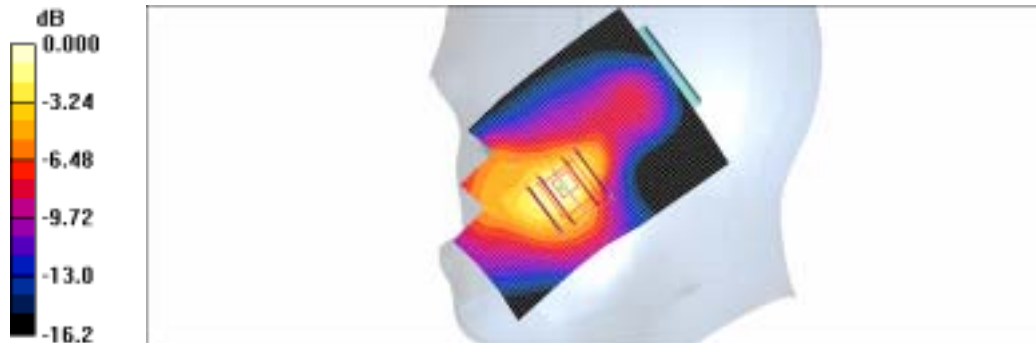
Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.64 V/m; Power Drift = -0.032 dB

Peak SAR (extrapolated) = 0.353 W/kg

SAR(1 g) = 0.234 mW/g

Maximum value of SAR (measured) = 0.256 mW/g



0 dB = 0.256mW/g

SAMSUNG FCC ID : A3LSPHW2500 GSM1900 Head SAR

DUT: SPH-W2500(Up); Serial: FE-005-A

Program Name: SPH-W2500 GSM1900 Right Slide Up(Job No. : FE-005)

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

Meas.Tissue Temp(celsius)-21.6, Ambient Temp-21.8;Test Date-06/Jan/2007

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 39$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(8.32, 8.32, 8.32); Calibrated: 2006-11-23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2006-07-17
- Phantom: SAM PHANTOM #1; Type: SAM; Serial: TP-1247
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

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

dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.060 mW/g

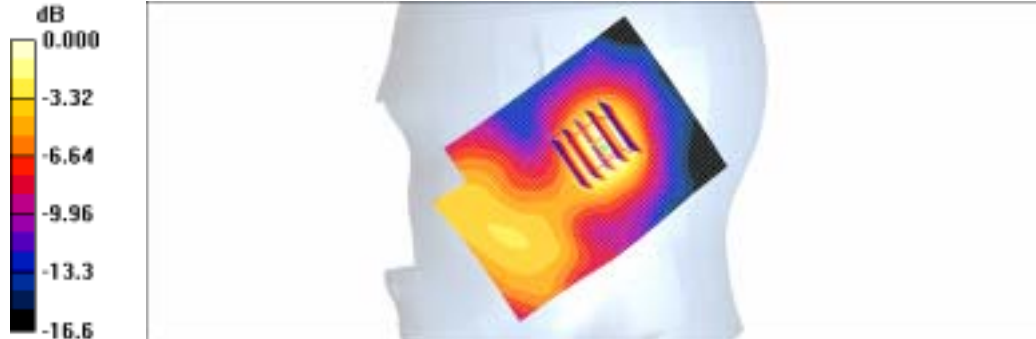
Ear/Tilt, Ch.661, Ant.Intenna, Bat.Standard/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.44 V/m; Power Drift = 0.023 dB

Peak SAR (extrapolated) = 0.072 W/kg

SAR(1 g) = 0.048 mW/g

Maximum value of SAR (measured) = 0.052 mW/g



0 dB = 0.052mW/g

SAMSUNG FCC ID : A3LSPHW2500 GSM1900 Head SAR

DUT: SPH-W2500(Up); Serial: FE-005-A

Program Name: SPH-W2500 GSM1900 Left Slide Up (Job No. : FE-005)

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

Meas.Tissue Temp(celsius)-21.6, Ambient Temp-21.8;Test Date-06/Jan/2007

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 39$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(8.32, 8.32, 8.32); Calibrated: 2006-11-23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2006-07-17
- Phantom: SAM PHANTOM #1; Type: SAM; Serial: TP-1247
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

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

Maximum value of SAR (interpolated) = 0.119 mW/g

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

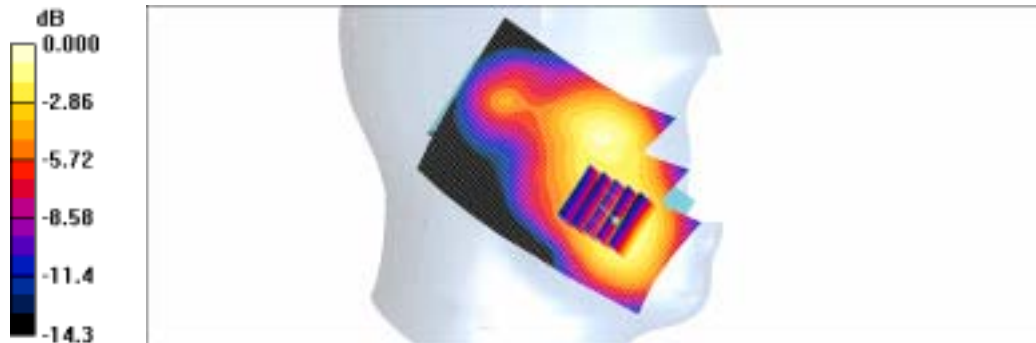
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.56 V/m; Power Drift = -0.063 dB

Peak SAR (extrapolated) = 0.188 W/kg

SAR(1 g) = 0.119 mW/g

Maximum value of SAR (measured) = 0.127 mW/g



0 dB = 0.127mW/g

SAMSUNG FCC ID : A3LSPHW2500 GSM1900 Head SAR

DUT: SPH-W2500(Up); Serial: FE-005-A

Program Name: SPH-W2500 GSM1900 Left Slide Up (Job No. : FE-005)

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

Meas.Tissue Temp(celsius)-21.6, Ambient Temp-21.8;Test Date-06/Jan/2007

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 39$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(8.32, 8.32, 8.32); Calibrated: 2006-11-23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2006-07-17
- Phantom: SAM PHANTOM #1; Type: SAM; Serial: TP-1247
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

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

Reference Value = 3.64 V/m; Power Drift = -0.083 dB

Peak SAR (extrapolated) = 0.108 W/kg

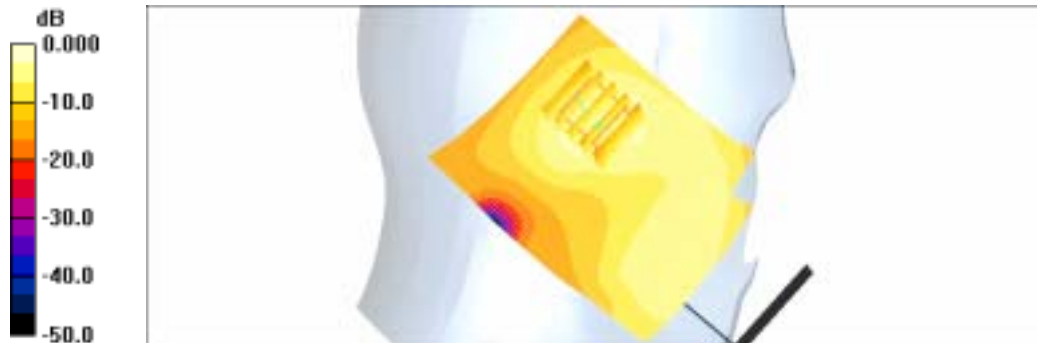
SAR(1 g) = 0.068 mW/g

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

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

dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.066 mW/g



0 dB = 0.066mW/g

SAMSUNG FCC ID : A3LSPHW2500 GPRS1900 Body SAR

DUT: SPH-W2500(Body); Serial: FE-005-A

Program Name: SPH-W2500 GPRS1900 Body (Job No. : FE-005)

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

Meas.Tissue Temp(celsius)-21.6, Ambient Temp-21.9;Test Date-06/Jan/2007

Communication System: GSM1900 GPRS; Frequency: 1850.2 MHz;Duty Cycle: 1:4.15

Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 52.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(7.86, 7.86, 7.86); Calibrated: 2006-11-23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2006-07-17
- Phantom: SAM PHANTOM #2; Type: SAM; Serial: TP-1248
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

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 = 10.2 V/m; Power Drift = 0.038 dB

Peak SAR (extrapolated) = 0.780 W/kg

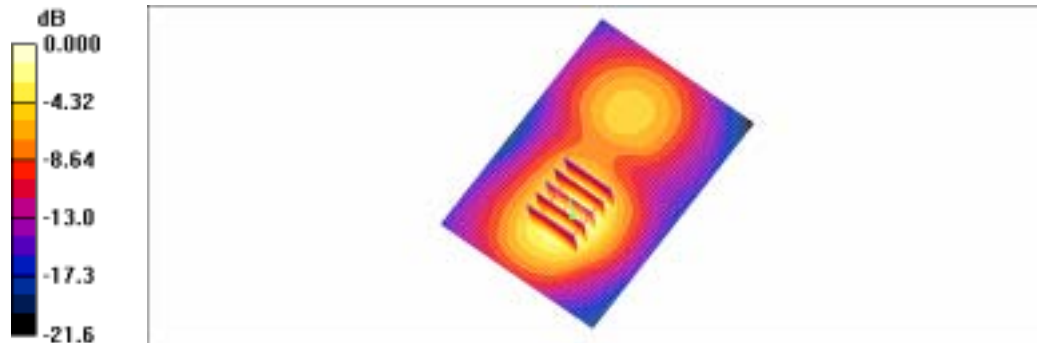
SAR(1 g) = 0.469 mW/g

Maximum value of SAR (measured) = 0.515 mW/g

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

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

Maximum value of SAR (interpolated) = 0.521 mW/g



0 dB = 0.521mW/g

SAMSUNG FCC ID : A3LSPHW2500 GSM1900 Head SAR

DUT: SPH-W2500(Down); Serial: FE-005-A

Program Name: SPH-W2500 GSM1900 Left Slide Down (Job No. : FE-005)

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

Meas.Tissue Temp(celsius)-21.6, Ambient Temp-21.8;Test Date-06/Jan/2007

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

Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 39$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(8.32, 8.32, 8.32); Calibrated: 2006-11-23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2006-07-17
- Phantom: SAM PHANTOM #1; Type: SAM; Serial: TP-1247
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Cheek/Touch, Ch.512, Ant.Intenna, Bat.Standard with BT ON/Area Scan (51x71x1):

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

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

Cheek/Touch, Ch.512, Ant.Intenna, Bat.Standard with BT ON/Zoom Scan (5x5x7)/Cube

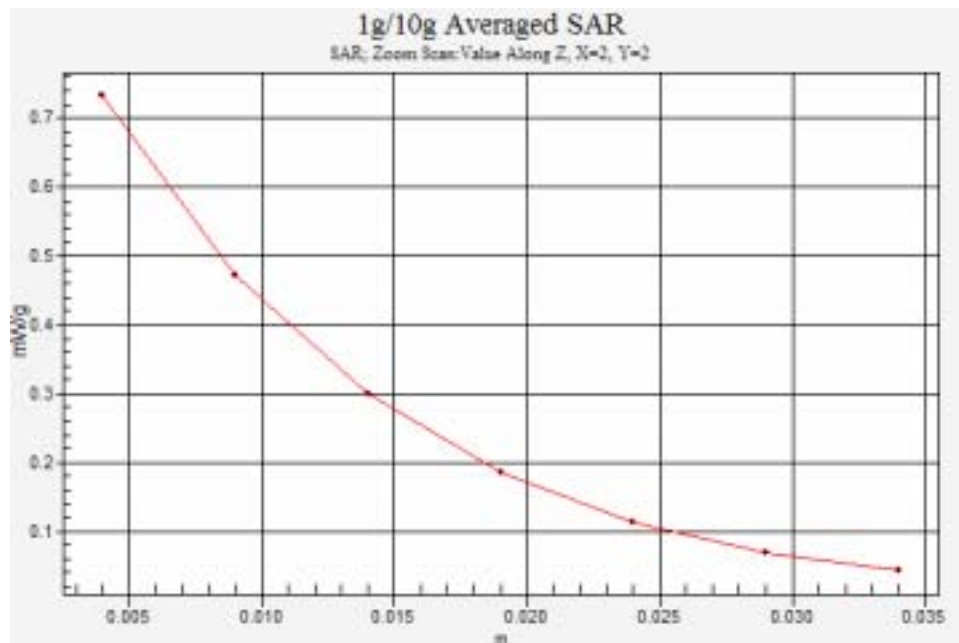
0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.6 V/m; Power Drift = -0.046 dB

Peak SAR (extrapolated) = 1.05 W/kg

SAR(1 g) = 0.665 mW/g

Maximum value of SAR (measured) = 0.733 mW/g



SAMSUNG FCC ID : A3LSPHW2500 GPRS1900 Body SAR

DUT: SPH-W2500(Body); Serial: FE-005-A

Program Name: SPH-W2500 GPRS1900 Body (Job No. : FE-005)

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

Meas.Tissue Temp(celsius)-21.6, Ambient Temp-21.9;Test Date-06/Jan/2007

Communication System: GSM1900 GPRS; Frequency: 1850.2 MHz;Duty Cycle: 1:4.15

Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 52.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(7.86, 7.86, 7.86); Calibrated: 2006-11-23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2006-07-17
- Phantom: SAM PHANTOM #2; Type: SAM; Serial: TP-1248
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

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 = 10.2 V/m; Power Drift = 0.038 dB

Peak SAR (extrapolated) = 0.780 W/kg

SAR(1 g) = 0.469 mW/g

Maximum value of SAR (measured) = 0.515 mW/g

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

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

Maximum value of SAR (interpolated) = 0.521 mW/g

