

SAMSUNG FCC ID : A3LSGHD840 1900MHz GSM1900 Head SAR

DUT: SGH-D840(Up); Serial: FD-015-B

Program Name: SGH-D840 GSM1900 Right (Job No. : FD-015)

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

Procedure Notes: Meas. Ambient Temp(celsius)-21.4, Tissue Temp(celsius)-21.0; Test Date-09/Feb/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; $\sigma = 1.42$ mho/m; $\epsilon_r = 39.3$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(4.92, 4.92, 4.92); Calibrated: 2005-05-26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn533; Calibrated: 2005-11-21
- 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 Slide up/Area Scan (51x71x1):

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

Maximum value of SAR (interpolated) = 0.377 mW/g

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

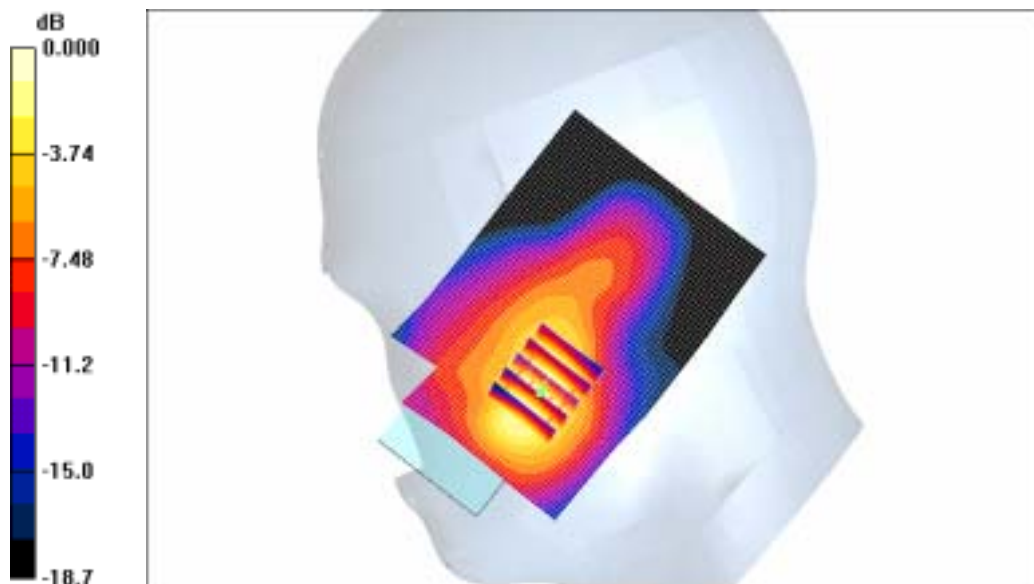
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.17 V/m; Power Drift = -0.059 dB

Peak SAR (extrapolated) = 0.528 W/kg

SAR(1 g) = 0.333 mW/g

Maximum value of SAR (measured) = 0.379 mW/g



0 dB = 0.379mW/g

SAMSUNG FCC ID : A3LSGHD840 1900MHz GSM1900 Head SAR

DUT: SGH-D840(Up); Serial: FD-015-B

Program Name: SGH-D840 GSM1900 Right (Job No. : FD-015)

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

Procedure Notes: Meas. Ambient Temp(celsius)-21.4, Tissue Temp(celsius)-21.0; Test Date-09/Feb/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; $\sigma = 1.42$ mho/m; $\epsilon_r = 39.3$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(4.92, 4.92, 4.92); Calibrated: 2005-05-26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn533; Calibrated: 2005-11-21
- 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 Slide up/Area Scan (51x71x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.126 mW/g

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

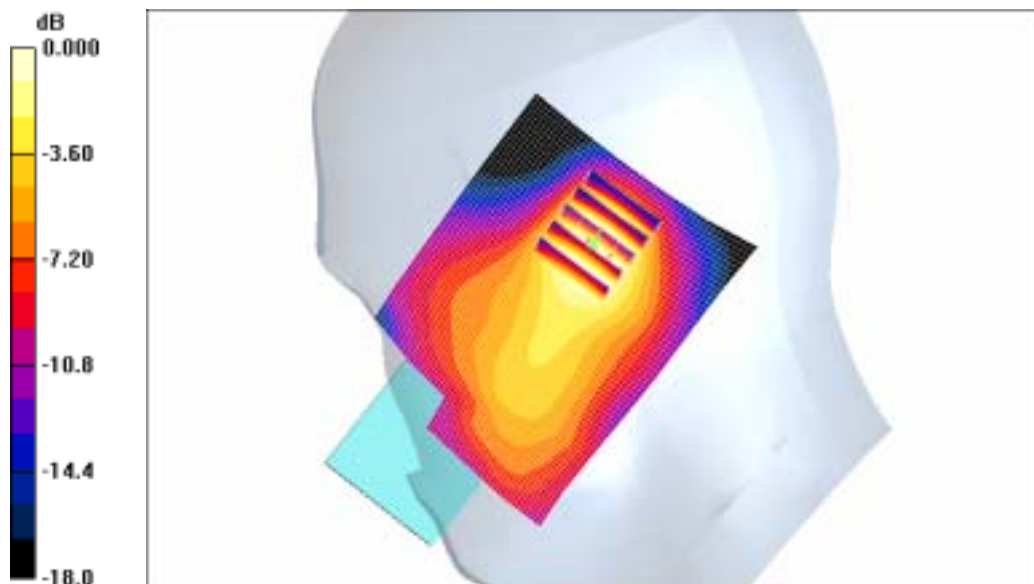
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.01 V/m; Power Drift = 0.099 dB

Peak SAR (extrapolated) = 0.168 W/kg

SAR(1 g) = 0.108 mW/g

Maximum value of SAR (measured) = 0.115 mW/g



0 dB = 0.115mW/g

SAMSUNG FCC ID : A3LSGHD840 1900MHz GSM1900 Head SAR

DUT: SGH-D840(Down); Serial: FD-015-B

Program Name: SGH-D840 GSM1900 Right Slide Down (Job No. : FD-015)

Procedure Name: Cheek/Touch, Ch.810, Ant.Intenna, Bat.Standard Slide Down

Procedure Notes: Meas. Ambient Temp(celsius)-21.4, Tissue Temp(celsius)-21.0; Test Date-09/Feb/2006 [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; $\sigma = 1.42$ mho/m; $\epsilon_r = 39.3$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(4.92, 4.92, 4.92); Calibrated: 2005-05-26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn533; Calibrated: 2005-11-21
- 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.810, Ant.Intenna, Bat.Standard Slide Down/Area Scan (51x71x1):

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

Maximum value of SAR (interpolated) = 0.654 mW/g

Cheek/Touch, Ch.810, Ant.Intenna, Bat.Standard Slide Down/Zoom Scan (5x5x7)/Cube 0:

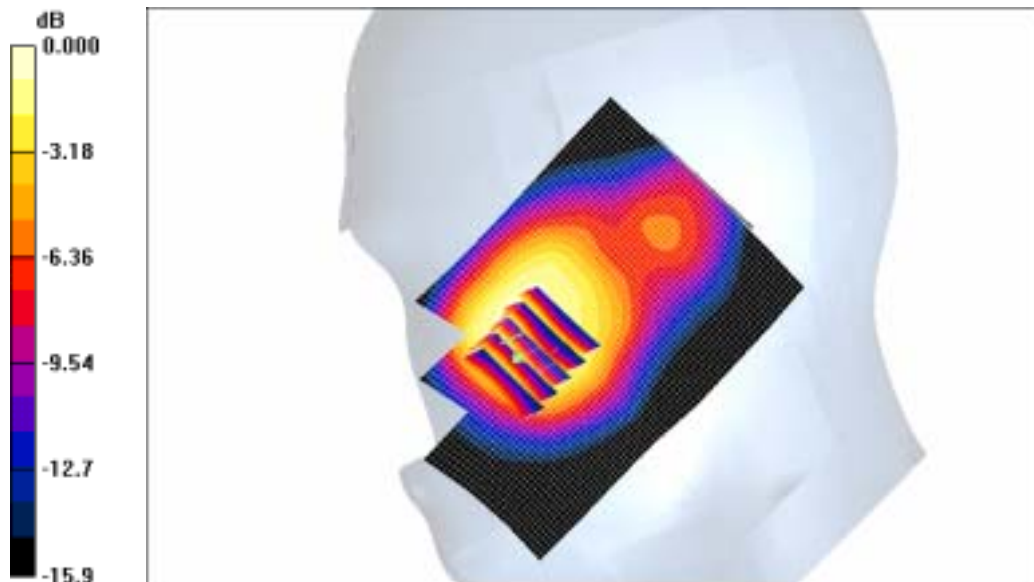
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.1 V/m; Power Drift = -0.038 dB

Peak SAR (extrapolated) = 0.900 W/kg

SAR(1 g) = 0.536 mW/g

Maximum value of SAR (measured) = 0.592 mW/g



0 dB = 0.592mW/g

SAMSUNG FCC ID : A3LSGHD840 1900MHz GSM1900 Head SAR

DUT: SGH-D840(Down); Serial: FD-015-B

Program Name: SGH-D840 GSM1900 Right Slide Down (Job No. : FD-015)

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

Procedure Notes: Meas. Ambient Temp(celsius)-21.4, Tissue Temp(celsius)-21.0; Test Date-09/Feb/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; $\sigma = 1.42$ mho/m; $\epsilon_r = 39.3$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(4.92, 4.92, 4.92); Calibrated: 2005-05-26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn533; Calibrated: 2005-11-21
- 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 Slide Down/Area Scan (51x71x1):

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

Maximum value of SAR (interpolated) = 0.242 mW/g

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

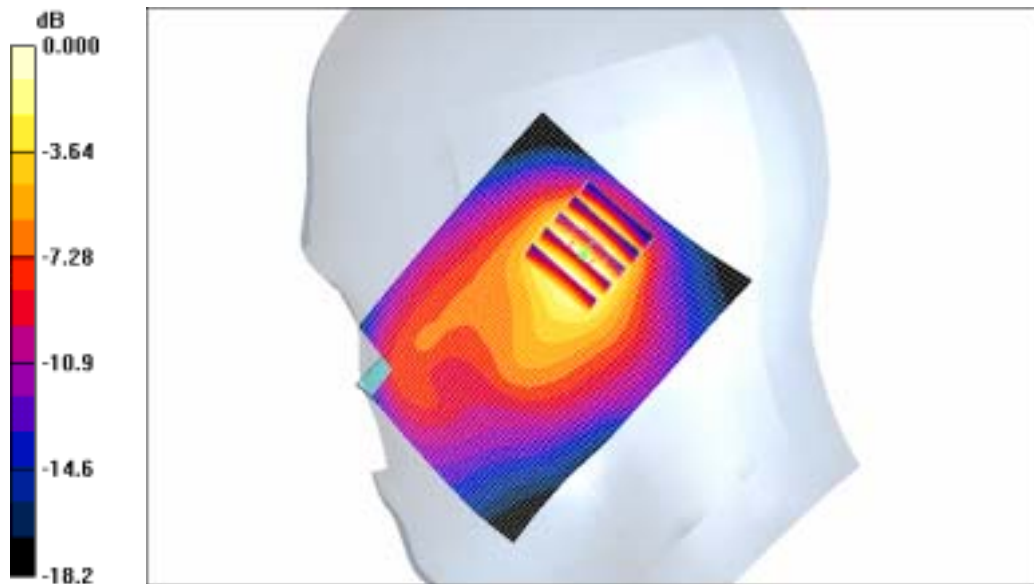
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.7 V/m; Power Drift = -0.026 dB

Peak SAR (extrapolated) = 0.317 W/kg

SAR(1 g) = 0.202 mW/g

Maximum value of SAR (measured) = 0.225 mW/g



0 dB = 0.225mW/g

SAMSUNG FCC ID : A3LSGHD840 1900MHz GSM1900 Head SAR

DUT: SGH-D840(Up); Serial: FD-015-B

Program Name: SGH-D840 GSM1900 Left (Job No. : FD-015)

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

Procedure Notes: Meas. Ambient Temp(celsius)-21.4, Tissue Temp(celsius)-21.0; Test Date-09/Feb/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; $\sigma = 1.42$ mho/m; $\epsilon_r = 39.3$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(4.92, 4.92, 4.92); Calibrated: 2005-05-26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn533; Calibrated: 2005-11-21
- 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 Slide up/Area Scan (51x71x1):

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

Maximum value of SAR (interpolated) = 0.179 mW/g

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

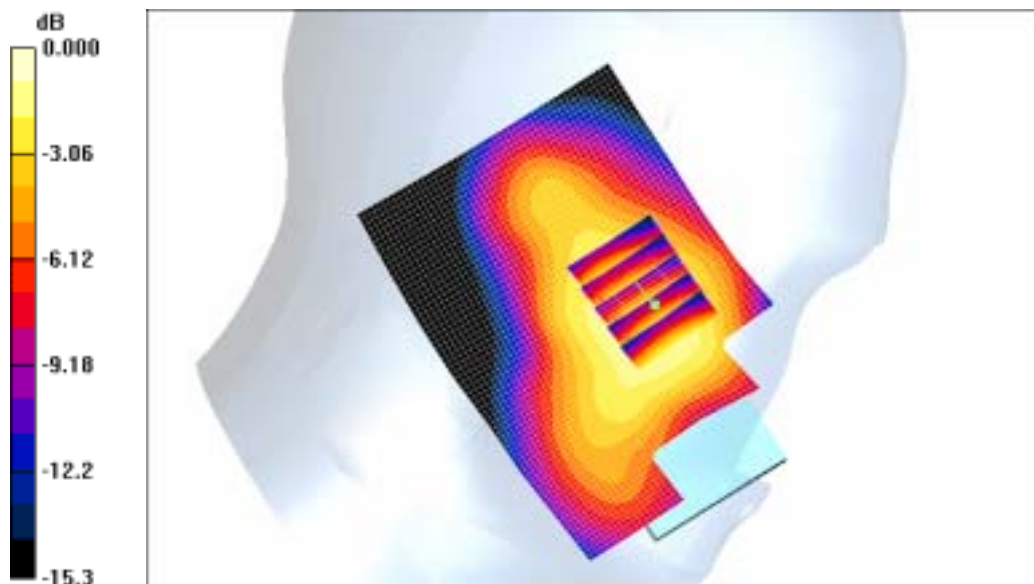
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.78 V/m; Power Drift = -0.158 dB

Peak SAR (extrapolated) = 0.289 W/kg

SAR(1 g) = 0.190 mW/g

Maximum value of SAR (measured) = 0.209 mW/g



0 dB = 0.209mW/g

SAMSUNG FCC ID : A3LSGHD840 1900MHz GSM1900 Head SAR

DUT: SGH-D840(Up); Serial: FD-015-B

Program Name: SGH-D840 GSM1900 Left (Job No. : FD-015)

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

Procedure Notes: Meas. Ambient Temp(celsius)-21.4, Tissue Temp(celsius)-21.0; Test Date-09/Feb/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; $\sigma = 1.42$ mho/m; $\epsilon_r = 39.3$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(4.92, 4.92, 4.92); Calibrated: 2005-05-26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn533; Calibrated: 2005-11-21
- 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 Slide up/Area Scan (51x71x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.177 mW/g

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

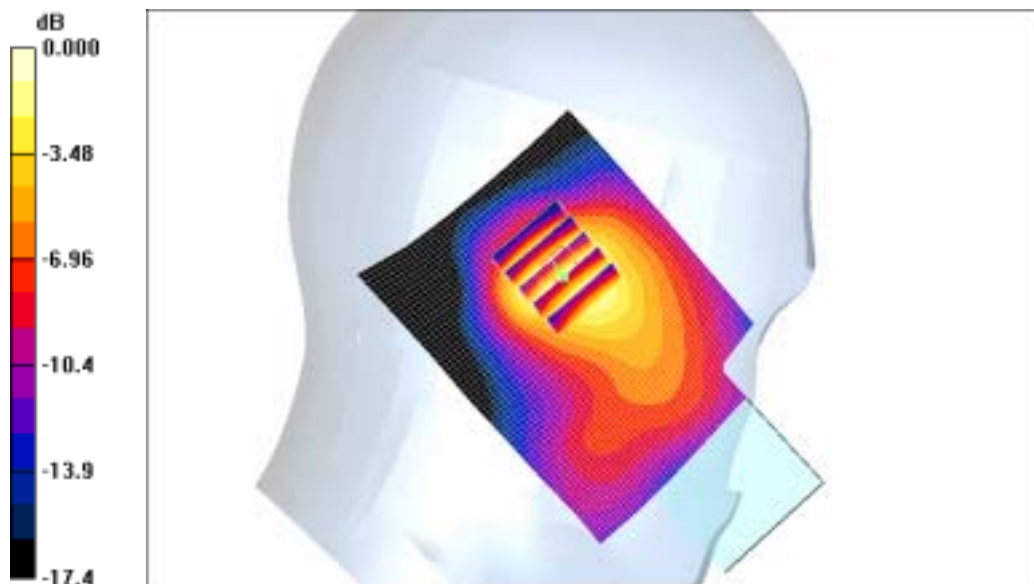
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.82 V/m; Power Drift = 0.087 dB

Peak SAR (extrapolated) = 0.214 W/kg

SAR(1 g) = 0.136 mW/g

Maximum value of SAR (measured) = 0.144 mW/g



0 dB = 0.144mW/g

SAMSUNG FCC ID : A3LSGHD840 1900MHz GSM1900 Head SAR

DUT: SGH-D840(Down); Serial: FD-015-B

Program Name: SGH-D840 GSM1900 Left Slide Down (Job No. : FD-015)

Procedure Name: Cheek/Touch, Ch.810, Ant.Intenna, Bat.Standard Slide Down with BT ON

Procedure Notes: Meas. Ambient Temp(celsius)-21.4, Tissue Temp(celsius)-21.0; Test Date-09/Feb/2006 [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; $\sigma = 1.42$ mho/m; $\epsilon_r = 39.3$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(4.92, 4.92, 4.92); Calibrated: 2005-05-26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn533; Calibrated: 2005-11-21
- 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.810, Ant.Intenna, Bat.Standard Slide Down with BT ON/Zoom Scan

(5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.36 V/m; Power Drift = 0.083 dB

Peak SAR (extrapolated) = 1.06 W/kg

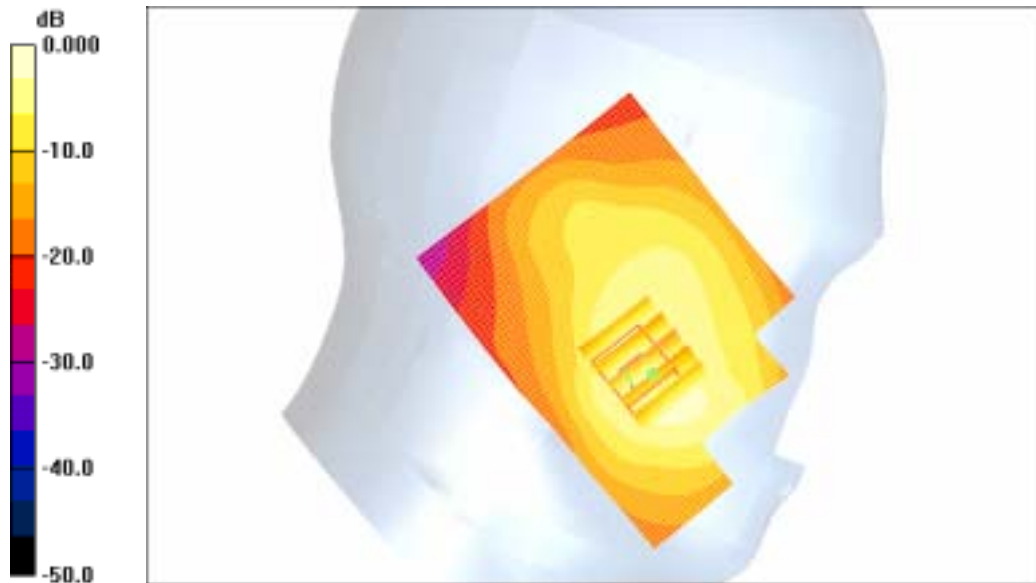
SAR(1 g) = 0.604 mW/g

Maximum value of SAR (measured) = 0.618 mW/g

Cheek/Touch, Ch.810, Ant.Intenna, Bat.Standard Slide Down with BT ON/Area Scan

(51x71x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.712 mW/g



0 dB = 0.712mW/g

SAMSUNG FCC ID : A3LSGHD840 1900MHz GSM1900 Head SAR

DUT: SGH-D840(Down); Serial: FD-015-B

Program Name: SGH-D840 GSM1900 Left Slide Down (Job No. : FD-015)

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

Procedure Notes: Meas. Ambient Temp(celsius)-21.4, Tissue Temp(celsius)-21.0; Test Date-09/Feb/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; $\sigma = 1.42$ mho/m; $\epsilon_r = 39.3$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(4.92, 4.92, 4.92); Calibrated: 2005-05-26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn533; Calibrated: 2005-11-21
- 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 Slide Down/Area Scan (51x71x1):

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

Maximum value of SAR (interpolated) = 0.245 mW/g

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

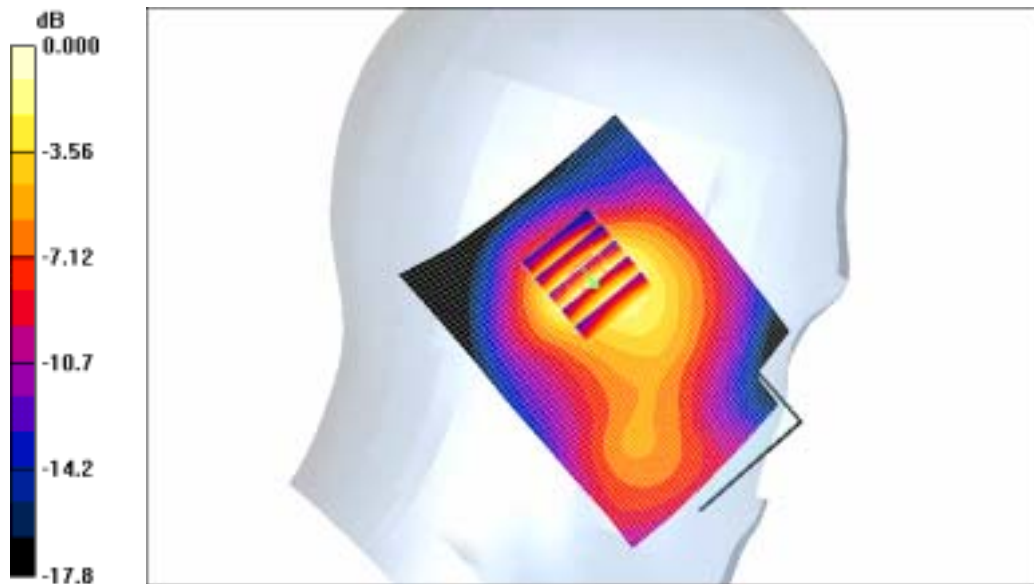
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.8 V/m; Power Drift = -0.076 dB

Peak SAR (extrapolated) = 0.299 W/kg

SAR(1 g) = 0.197 mW/g

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



0 dB = 0.208mW/g

SAMSUNG FCC ID : A3LSGHD840 1900MHz GPRS1900 Body SAR

DUT: SGH-D840(Body); Serial: FD-015-B

Program Name: SGH-D840 GSM1900 Body (Job No. : FD-015)

Procedure Name: Body, Ch.810, Ant.Intenna, Bat.Standard With BT ON

Procedure Notes: Meas.Ambient Temp(celsius)-21.7, Tissue Temp(celsius)-21.2; Test Date-09/Feb/2006 [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; $\sigma = 1.54$ mho/m; $\epsilon_r = 52$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(4.42, 4.42, 4.42); Calibrated: 2005-05-26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn533; Calibrated: 2005-11-21
- Phantom: PHANTOM #2; Type: SAM; Serial: TP-1141
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Body, Ch.810, Ant.Intenna, Bat.Standard With BT ON/Area Scan (51x71x1):

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

Maximum value of SAR (interpolated) = 0.615 mW/g

Body, Ch.810, Ant.Intenna, Bat.Standard With BT ON/Zoom Scan (5x5x7)/Cube 0:

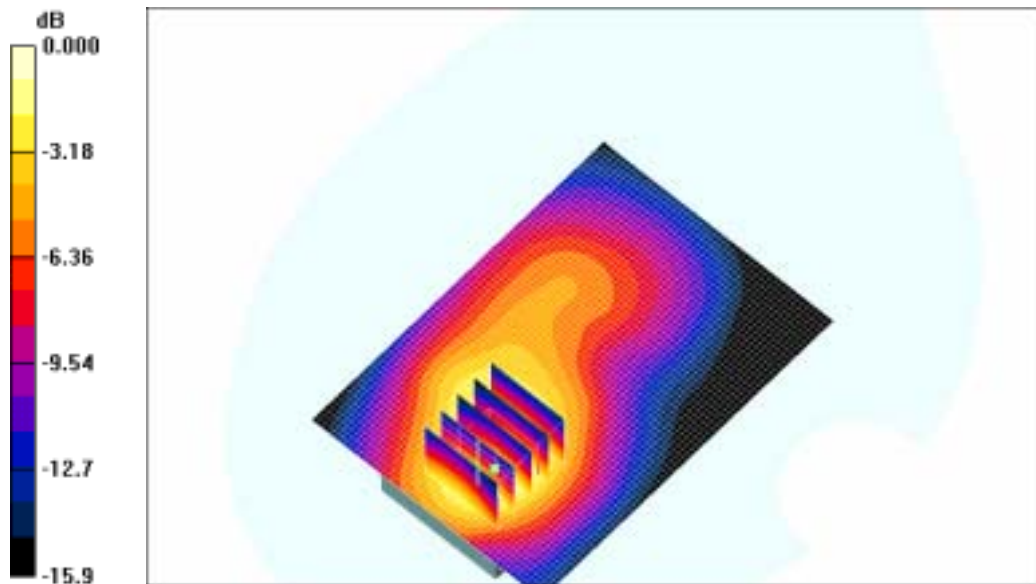
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.95 V/m; Power Drift = -0.034 dB

Peak SAR (extrapolated) = 0.748 W/kg

SAR(1 g) = 0.471 mW/g

Maximum value of SAR (measured) = 0.525 mW/g



0 dB = 0.525mW/g

SAMSUNG FCC ID : A3LSGHD840 1900MHz GSM1900 Head SAR

DUT: SGH-D840(Down); Serial: FD-015-B

Program Name: SGH-D840 GSM1900 Left Slide Down (Job No. : FD-015)

Procedure Name: Cheek/Touch, Ch.810, Ant.Intenna, Bat.Standard Slide Down with BT ON

Procedure Notes: Meas. Ambient Temp(celsius)-21.4, Tissue Temp(celsius)-21.0; Test Date-09/Feb/2006 [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; $\sigma = 1.42$ mho/m; $\epsilon_r = 39.3$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(4.92, 4.92, 4.92); Calibrated: 2005-05-26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn533; Calibrated: 2005-11-21
- 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.810, Ant.Intenna, Bat.Standard Slide Down with BT ON/Area Scan

(51x71x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.712 mW/g

Cheek/Touch, Ch.810, Ant.Intenna, Bat.Standard Slide Down with BT ON/Zoom Scan

(5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.36 V/m; Power Drift = 0.083 dB

Peak SAR (extrapolated) = 1.06 W/kg

SAR(1 g) = 0.604 mW/g

Maximum value of SAR (measured) = 0.618 mW/g



SAMSUNG FCC ID : A3LSGHD840 1900MHz GPRS1900 Body SAR

DUT: SGH-D840(Body); Serial: FD-015-B

Program Name: SGH-D840 GSM1900 Body (Job No. : FD-015)

Procedure Name: Body, Ch.810, Ant.Intenna, Bat.Standard With BT ON

Procedure Notes: Meas.Ambient Temp(celsius)-21.7, Tissue Temp(celsius)-21.2; Test Date-09/Feb/2006 [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; $\sigma = 1.54$ mho/m; $\epsilon_r = 52$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(4.42, 4.42, 4.42); Calibrated: 2005-05-26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn533; Calibrated: 2005-11-21
- Phantom: PHANTOM #2; Type: SAM; Serial: TP-1141
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Body, Ch.810, Ant.Intenna, Bat.Standard With BT ON/Area Scan (51x71x1):

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

Maximum value of SAR (interpolated) = 0.615 mW/g

Body, Ch.810, Ant.Intenna, Bat.Standard With BT ON/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 8.95 V/m; Power Drift = -0.034 dB

Peak SAR (extrapolated) = 0.748 W/kg

SAR(1 g) = 0.471 mW/g

Maximum value of SAR (measured) = 0.525 mW/g

