

SAMSUNG FCC ID : A3LSCHE159 835MHz CDMA Head SAR

DUT: SCH-E159(Vertical); Serial: FC-128-E

Program Name: SCH-E159 CDMA Right LCD Vertical (Job No. : FC-128)

Procedure Name: Cheek/Touch, Ch.0777, Ant.Fixed, Bat. Extended

Procedure Notes: Meas.Tissue Temp(celsius)-21.6; Test Date-04/Oct/2005[OET Bulletin 65-Supplement C, July 2001]

Communication System: CDMA; Frequency: 848.31 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 848.31$ MHz; $\sigma = 0.91$ mho/m; $\epsilon_r = 41.8$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(5.75, 5.75, 5.75); Calibrated: 2005-05-26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn670; Calibrated: 2005-04-05
- Phantom: SAM 835/900 MHz; Type: SAM; Serial: TP-1141
- Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

Cheek/Touch, Ch.0777, Ant.Fixed, Bat. Extended/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 5.15 V/m; Power Drift = -0.108 dB

Peak SAR (extrapolated) = 0.571 W/kg

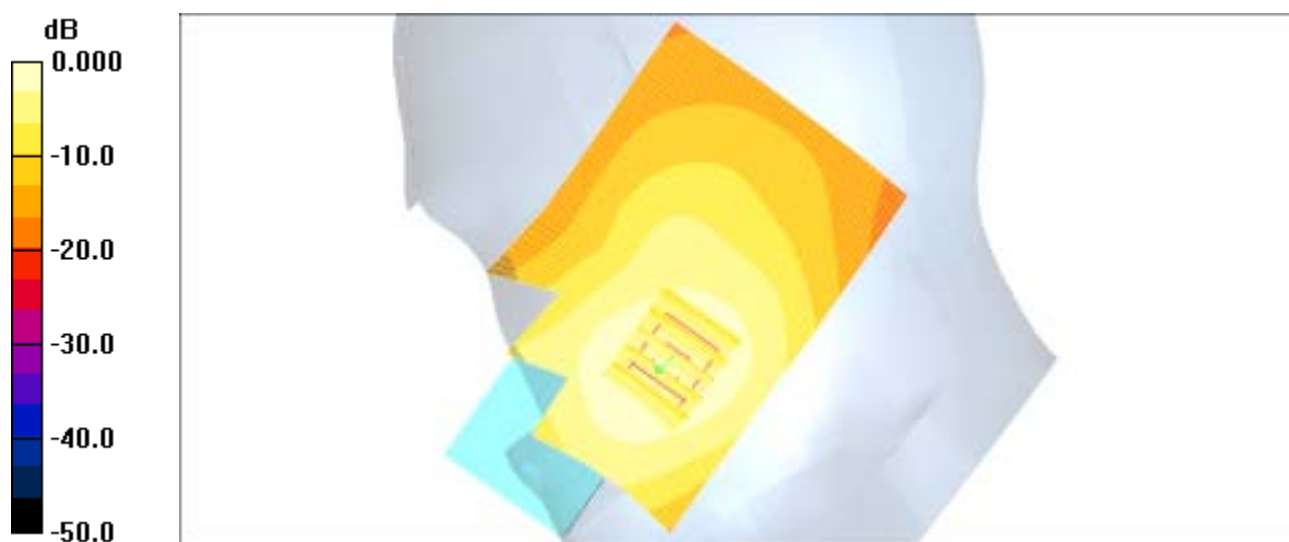
SAR(1 g) = 0.402 mW/g

Maximum value of SAR (measured) = 0.425 mW/g

Cheek/Touch, Ch.0777, Ant.Fixed, Bat. Extended/Area Scan (51x71x1): Measurement

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

Maximum value of SAR (interpolated) = 0.432 mW/g



0 dB = 0.432mW/g

SAMSUNG FCC ID : A3LSCHE159 835MHz CDMA Head SAR

DUT: SCH-E159(Vertical); Serial: FC-128-E

Program Name: SCH-E159 CDMA Right LCD Vertical (Job No. : FC-128)

Procedure Name: Ear/Tilt, Ch.0363, Ant.Fixed, Bat. Extended

Procedure Notes: Meas.Tissue Temp(celsius)-21.6; Test Date-04/Oct/2005[OET Bulletin 65-Supplement C, July 2001]

Communication System: CDMA; Frequency: 835.89 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 835.89 \text{ MHz}$; $\sigma = 0.91 \text{ mho/m}$; $\epsilon_r = 41.8$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(5.75, 5.75, 5.75); Calibrated: 2005-05-26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn670; Calibrated: 2005-04-05
- Phantom: SAM 835/900 MHz; Type: SAM; Serial: TP-1141
- Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

Ear/Tilt, Ch.0363, Ant.Fixed, Bat. Extended/Area Scan (51x71x1): Measurement grid:
 $dx=20\text{mm}$, $dy=20\text{mm}$

Maximum value of SAR (interpolated) = 0.097 mW/g

Ear/Tilt, Ch.0363, Ant.Fixed, Bat. Extended/Zoom Scan (5x5x7)/Cube 0:

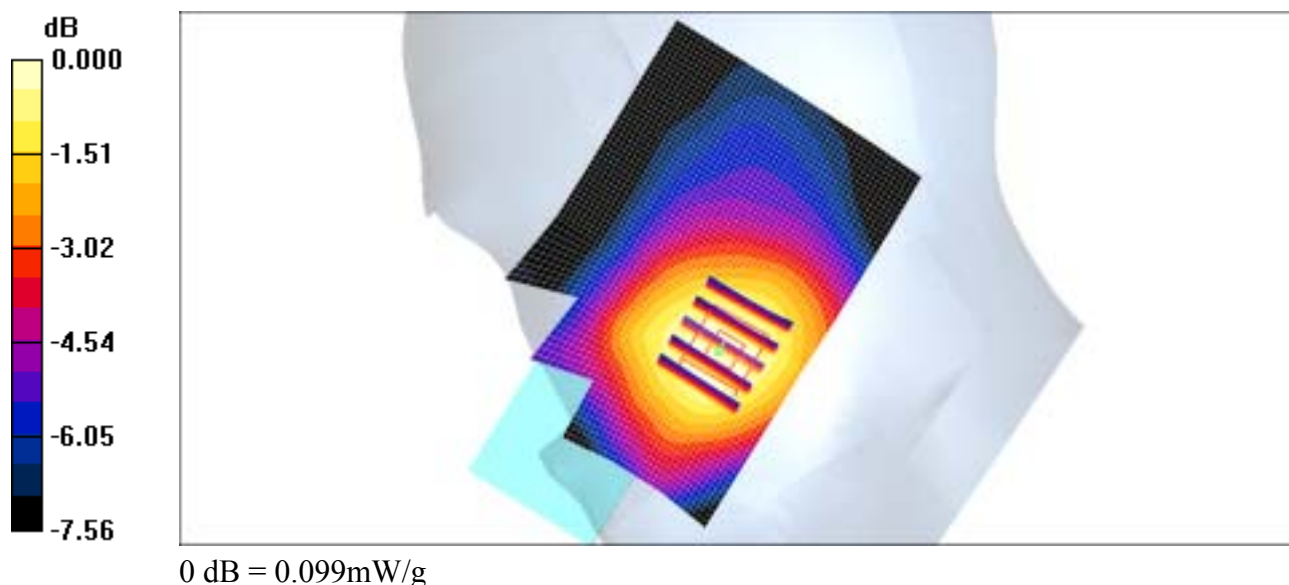
Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 5.96 V/m; Power Drift = 0.180 dB

Peak SAR (extrapolated) = 0.123 W/kg

SAR(1 g) = 0.095 mW/g

Maximum value of SAR (measured) = 0.099 mW/g



SAMSUNG FCC ID : A3LSCE159 835MHz CDMA Head SAR

DUT: SCH-E159(Horizontal); Serial: FC-128-E

Program Name: SCH-E159 CDMA Right LCD Horizontal (Job No. : FC-128)

Procedure Name: Cheek/Touch, Ch.0363, Ant.Fixed, Bat. Extended

Procedure Notes: Meas.Tissue Temp(celsius)-21.6;Test Date-04/Oct/2005[OET Bulletin 65-Supplement C, July 2001]

Communication System: CDMA; Frequency: 835.89 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 835.89$ MHz; $\sigma = 0.91$ mho/m; $\epsilon_r = 41.8$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(5.75, 5.75, 5.75); Calibrated: 2005-05-26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn670; Calibrated: 2005-04-05
- Phantom: SAM 835/900 MHz; Type: SAM; Serial: TP-1141
- Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

Cheek/Touch, Ch.0363, Ant.Fixed, Bat. Extended/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 9.19 V/m; Power Drift = -0.072 dB

Peak SAR (extrapolated) = 1.04 W/kg

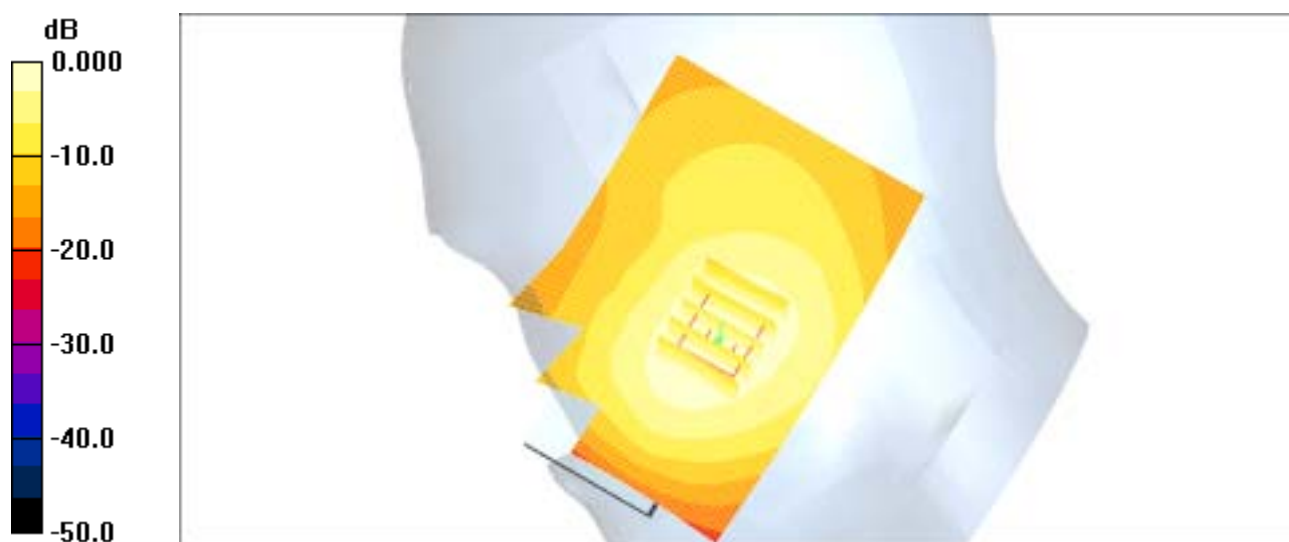
SAR(1 g) = 0.705 mW/g

Maximum value of SAR (measured) = 0.767 mW/g

Cheek/Touch, Ch.0363, Ant.Fixed, Bat. Extended/Area Scan (51x71x1):

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

Maximum value of SAR (interpolated) = 0.761 mW/g



0 dB = 0.761mW/g

SAMSUNG FCC ID : A3LSCHE159 835MHz CDMA Head SAR

DUT: SCH-E159(Horizontal); Serial: FC-128-E

Program Name: SCH-E159 CDMA Right LCD Horizontal (Job No. : FC-128)

Procedure Name: Ear/Tilt, Ch.0363, Ant.Fixed, Bat. Extended

Procedure Notes: Meas.Tissue Temp(celsius)-21.6; Test Date-04/Oct/2005[OET Bulletin 65-Supplement C, July 2001]

Communication System: CDMA; Frequency: 835.89 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 835.89 \text{ MHz}$; $\sigma = 0.91 \text{ mho/m}$; $\epsilon_r = 41.8$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(5.75, 5.75, 5.75); Calibrated: 2005-05-26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn670; Calibrated: 2005-04-05
- Phantom: SAM 835/900 MHz; Type: SAM; Serial: TP-1141
- Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

Ear/Tilt, Ch.0363, Ant.Fixed, Bat. Extended/Area Scan (51x71x1): Measurement grid:
 $dx=20\text{mm}$, $dy=20\text{mm}$

Maximum value of SAR (interpolated) = 0.176 mW/g

Ear/Tilt, Ch.0363, Ant.Fixed, Bat. Extended/Zoom Scan (5x5x7)/Cube 0:

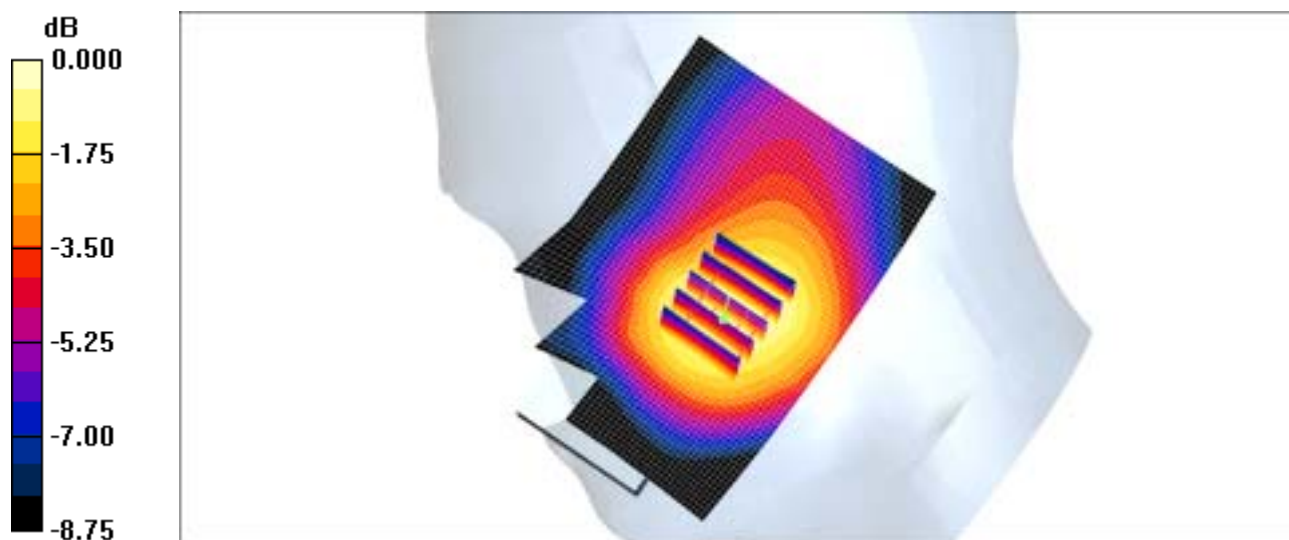
Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.05 V/m; Power Drift = 0.134 dB

Peak SAR (extrapolated) = 0.214 W/kg

SAR(1 g) = 0.164 mW/g

Maximum value of SAR (measured) = 0.174 mW/g



0 dB = 0.174mW/g

SAMSUNG FCC ID : A3LSCHE159 835MHz CDMA Head SAR

DUT: SCH-E159(Vertical); Serial: FC-128-E

Program Name: SCH-E159 CDMA Left LCD Vertical(Job No. : FC-128)

Procedure Name: Cheek/Touch, Ch.0777, Ant.Fixed, Bat. Extended

Procedure Notes: Meas.Tissue Temp(celsius)-21.6;Test Date-04/Oct/2005[OET Bulletin 65-Supplement C, July 2001]

Communication System: CDMA; Frequency: 848.31 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 848.31$ MHz; $\sigma = 0.91$ mho/m; $\epsilon_r = 41.8$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(5.75, 5.75, 5.75); Calibrated: 2005-05-26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn670; Calibrated: 2005-04-05
- Phantom: SAM 835/900 MHz; Type: SAM; Serial: TP-1141
- Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

Cheek/Touch, Ch.0777, Ant.Fixed, Bat. Extended/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 5.83 V/m; Power Drift = -0.169 dB

Peak SAR (extrapolated) = 0.496 W/kg

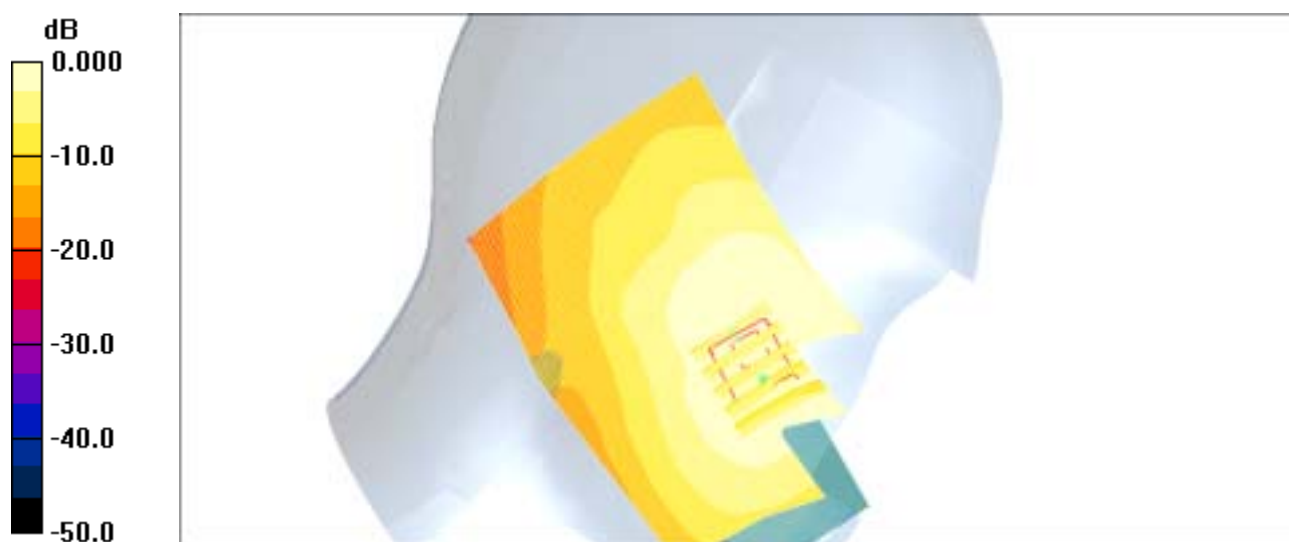
SAR(1 g) = 0.354 mW/g

Maximum value of SAR (measured) = 0.374 mW/g

Cheek/Touch, Ch.0777, Ant.Fixed, Bat. Extended/Area Scan (51x71x1): Measurement

grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.357 mW/g



0 dB = 0.357mW/g

SAMSUNG FCC ID : A3LSCH E159 835MHz CDMA Head SAR

DUT: SCH-E159(Vertical); Serial: FC-128-E

Program Name: SCH-E159 CDMA Left LCD Vertical(Job No. : FC-128)

Procedure Name: Ear/Tilt, Ch.0363, Ant.Fixed, Bat. Extended

Procedure Notes: Meas.Tissue Temp(celsius)-21.6; Test Date-04/Oct/2005[OET Bulletin 65-Supplement C, July 2001]

Communication System: CDMA; Frequency: 835.89 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 835.89 \text{ MHz}$; $\sigma = 0.91 \text{ mho/m}$; $\epsilon_r = 41.8$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(5.75, 5.75, 5.75); Calibrated: 2005-05-26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn670; Calibrated: 2005-04-05
- Phantom: SAM 835/900 MHz; Type: SAM; Serial: TP-1141
- Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

Ear/Tilt, Ch.0363, Ant.Fixed, Bat. Extended/Area Scan (51x71x1): Measurement grid:
 $dx=20\text{mm}$, $dy=20\text{mm}$

Maximum value of SAR (interpolated) = 0.096 mW/g

Ear/Tilt, Ch.0363, Ant.Fixed, Bat. Extended/Zoom Scan (5x5x7)/Cube 0:

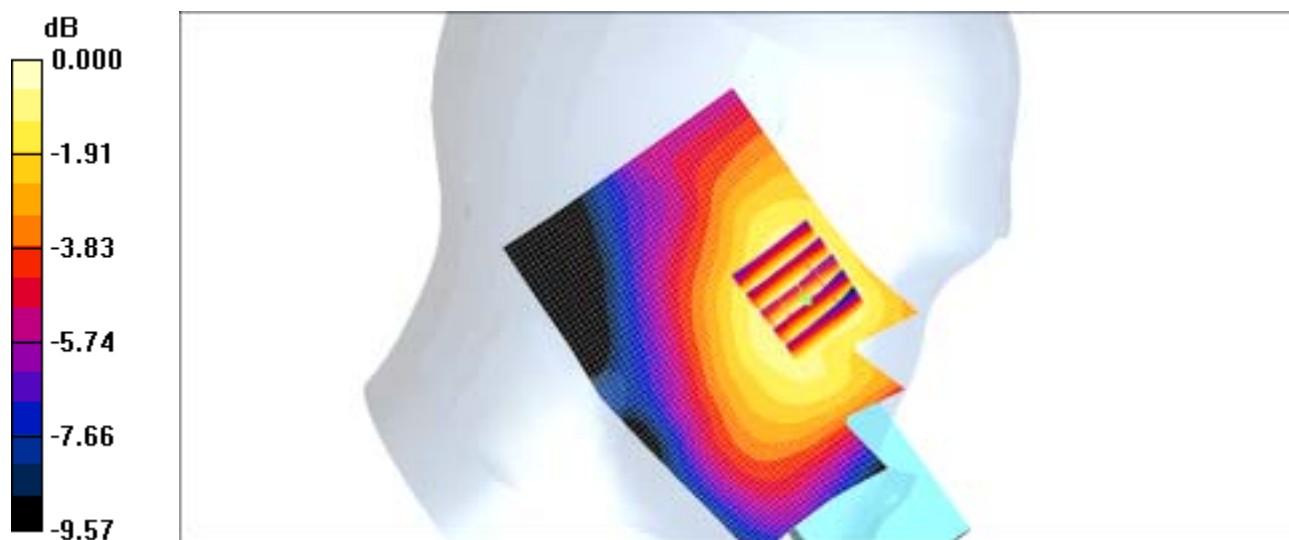
Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 5.50 V/m ; Power Drift = 0.019 dB

Peak SAR (extrapolated) = 0.122 W/kg

SAR(1 g) = 0.095 mW/g

Maximum value of SAR (measured) = 0.100 mW/g



0 dB = 0.100 mW/g

SAMSUNG FCC ID : A3LSCHE159 835MHz CDMA Head SAR

DUT: SCH-E159(Horizontal); Serial: FC-128-E

Program Name: SCH-E159 CDMA Left LCD Horizontal(Job No. : FC-128)

Procedure Name: Cheek/Touch, Ch.0777, Ant.Fixed, Bat. Extended

Procedure Notes: Meas.Tissue Temp(celsius)-21.6;Test Date-04/Oct/2005[OET Bulletin 65-Supplement C, July 2001]

Communication System: CDMA; Frequency: 848.31 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 848.31$ MHz; $\sigma = 0.91$ mho/m; $\epsilon_r = 41.8$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(5.75, 5.75, 5.75); Calibrated: 2005-05-26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn670; Calibrated: 2005-04-05
- Phantom: SAM 835/900 MHz; Type: SAM; Serial: TP-1141
- Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

Cheek/Touch, Ch.0777, Ant.Fixed, Bat. Extended/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 9.36 V/m; Power Drift = -0.142 dB

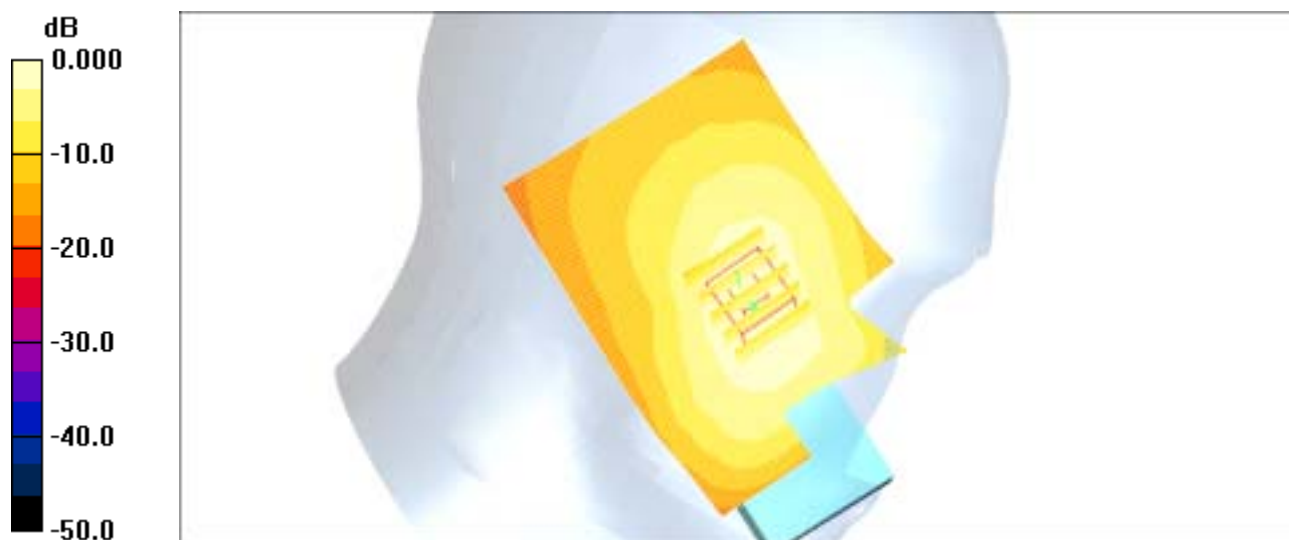
Peak SAR (extrapolated) = 1.14 W/kg

SAR(1 g) = 0.748 mW/g

Maximum value of SAR (measured) = 0.787 mW/g

Cheek/Touch, Ch.0777, Ant.Fixed, Bat. Extended/Area Scan (51x71x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.850 mW/g



0 dB = 0.850mW/g

SAMSUNG FCC ID : A3LSCHE159 835MHz CDMA Head SAR

DUT: SCH-E159(Horizontal); Serial: FC-128-E

Program Name: SCH-E159 CDMA Left LCD Horizontal(Job No. : FC-128)

Procedure Name: Ear/Tilt, Ch.0363, Ant.Fixed, Bat. Extended

Procedure Notes: Meas.Tissue Temp(celsius)-21.6;Test Date-04/Oct/2005[OET Bulletin 65-Supplement C, July 2001]

Communication System: CDMA; Frequency: 835.89 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 835.89$ MHz; $\sigma = 0.91$ mho/m; $\epsilon_r = 41.8$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(5.75, 5.75, 5.75); Calibrated: 2005-05-26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn670; Calibrated: 2005-04-05
- Phantom: SAM 835/900 MHz; Type: SAM; Serial: TP-1141
- Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

Ear/Tilt, Ch.0363, Ant.Fixed, Bat. Extended/Area Scan (51x71x1): Measurement grid:
dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.194 mW/g

Ear/Tilt, Ch.0363, Ant.Fixed, Bat. Extended/Zoom Scan (5x5x7)/Cube 0:

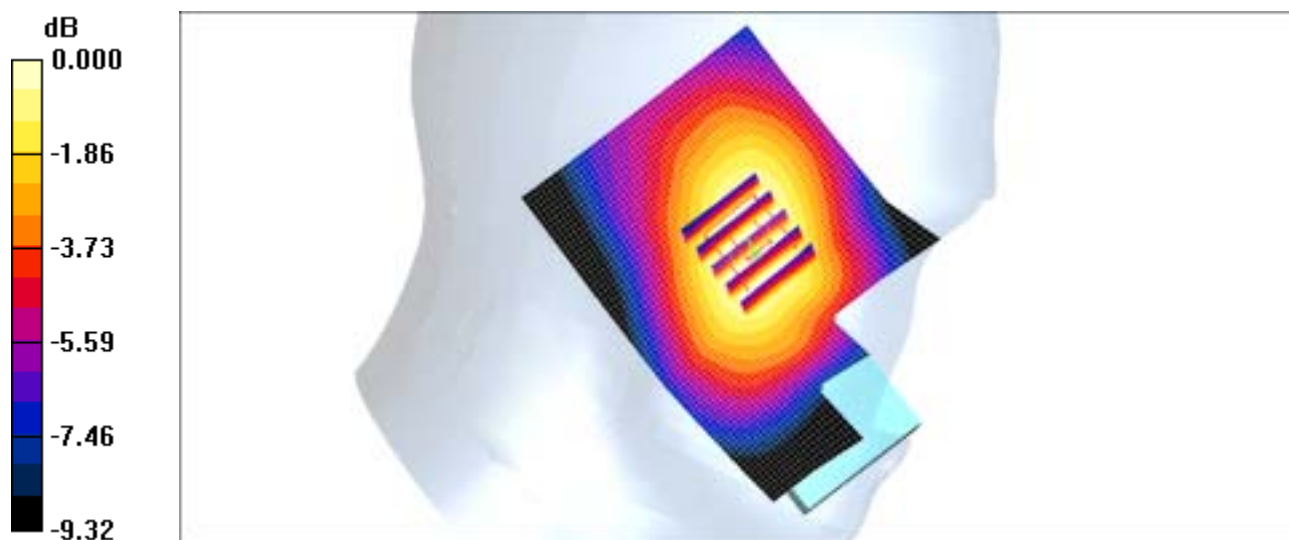
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.78 V/m; Power Drift = -0.141 dB

Peak SAR (extrapolated) = 0.236 W/kg

SAR(1 g) = 0.178 mW/g

Maximum value of SAR (measured) = 0.187 mW/g



0 dB = 0.187mW/g

SAMSUNG FCC ID : A3LSCHE159 835MHz CDMA Head SAR

DUT: SCH-E159(Body); Serial: FC-128-B

Program Name: SCH-E159 CDMA Body (Job No. : FC-128)

Procedure Name: Body, Ch. 0777, Ant. Fixed, Bat. Standard

Procedure Notes: Meas.Tissue Temp(celsius)-22.7; Test Date-04/Oct/2005[OET Bulletin 65-Supplement C, July 2001]

Communication System: CDMA; Frequency: 848.31 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 848.31$ MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 53.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(5.82, 5.82, 5.82); Calibrated: 2005-05-26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn670; Calibrated: 2005-04-05
- Phantom: SAM 835/900 MHz; Type: SAM; Serial: TP-1141
- Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

Body, Ch. 0777, Ant. Fixed, Bat. Standard/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 31.8 V/m; Power Drift = 0.146 dB

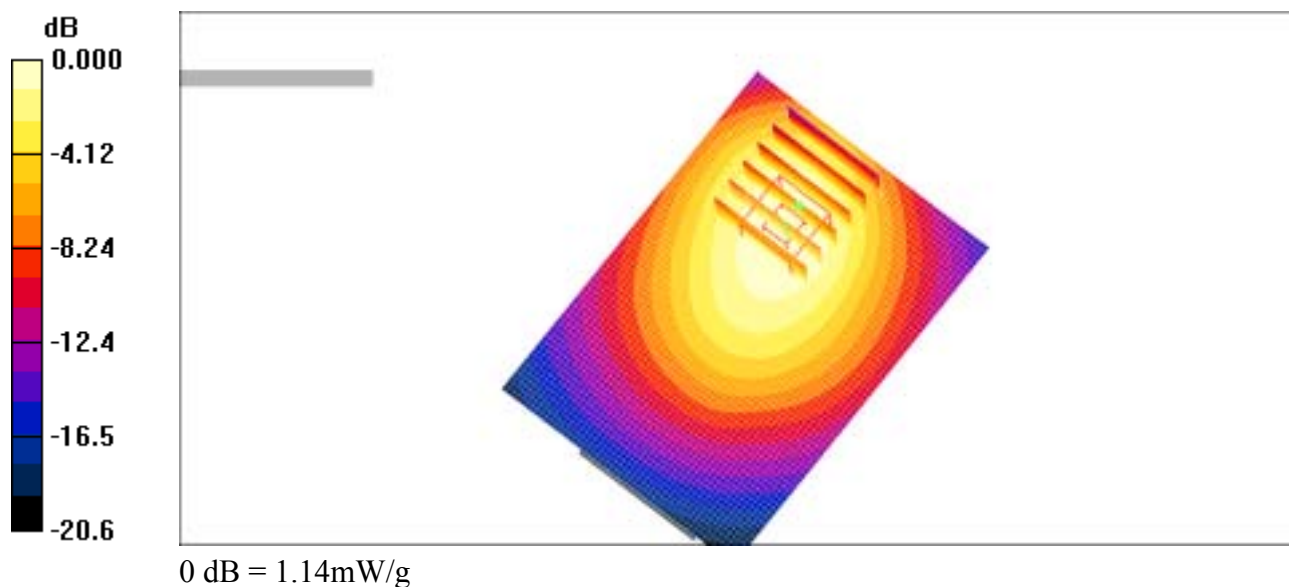
Peak SAR (extrapolated) = 1.48 W/kg

SAR(1 g) = 1.08 mW/g

Maximum value of SAR (measured) = 1.13 mW/g

Body, Ch. 0777, Ant. Fixed, Bat. Standard/Area Scan (51x71x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 1.14 mW/g



SAMSUNG FCC ID : A3LSGHE159 835MHz CDMA Head SAR

DUT: SCH-E159(Horizontal); Serial: FC-128-E

Program Name: SCH-E159 CDMA Left LCD Horizontal(Job No. : FC-128)

Procedure Name: Cheek/Touch, Ch.0777, Ant.Fixed, Bat. Extended

Procedure Notes: Meas.Tissue Temp(celsius)-21.6; Test Date-04/Oct/2005[OET Bulletin 65-Supplement C, July 2001]

Communication System: CDMA; Frequency: 848.31 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 848.31$ MHz; $\sigma = 0.91$ mho/m; $\epsilon_r = 41.8$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(5.75, 5.75, 5.75); Calibrated: 2005-05-26

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

- Electronics: DAE4 Sn670; Calibrated: 2005-04-05

- Phantom: SAM 835/900 MHz; Type: SAM; Serial: TP-1141

- Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

Cheek/Touch, Ch.0777, Ant.Fixed, Bat. Extended/Area Scan (51x71x1): Measurement grid: $dx=20$ mm, $dy=20$ mm

Maximum value of SAR (interpolated) = 0.850 mW/g

Cheek/Touch, Ch.0777, Ant.Fixed, Bat. Extended/Zoom Scan (5x5x7)/Cube 0:

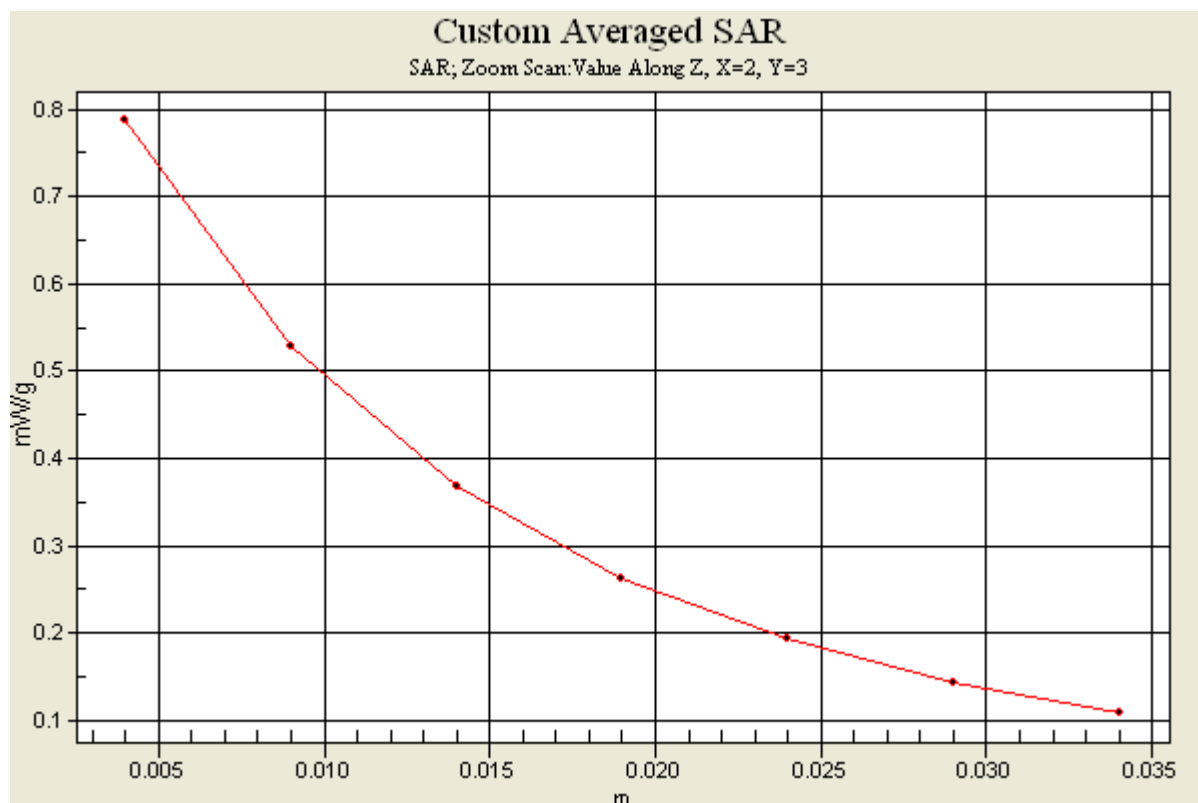
Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 9.36 V/m; Power Drift = -0.142 dB

Peak SAR (extrapolated) = 1.14 W/kg

SAR(1 g) = 0.748 mW/g

Maximum value of SAR (measured) = 0.787 mW/g



SAMSUNG FCC ID : A3LSGHE159 835MHz CDMA Body SAR

DUT: SCH-E159(Body); Serial: FC-128-B

Program Name: SCH-E159 CDMA Body (Job No. : FC-128)

Procedure Name: Body, Ch. 0777, Ant. Fixed, Bat. Standard

Procedure Notes: Meas.Tissue Temp(celsius)-22.7;Test Date-04/Oct/2005[OET Bulletin 65-Supplement C, July 2001]

Communication System: CDMA; Frequency: 848.31 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 848.31$ MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 53.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(5.82, 5.82, 5.82); Calibrated: 2005-05-26

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

- Electronics: DAE4 Sn670; Calibrated: 2005-04-05

- Phantom: SAM 835/900 MHz; Type: SAM; Serial: TP-1141

- Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

Body, Ch. 0777, Ant. Fixed, Bat. Standard/Area Scan (51x71x1): Measurement grid:
 $dx=20$ mm, $dy=20$ mm

Maximum value of SAR (interpolated) = 1.14 mW/g

Body, Ch. 0777, Ant. Fixed, Bat. Standard/Zoom Scan (6x6x7)/Cube 0: Measurement
grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 31.8 V/m; Power Drift = 0.146 dB

Peak SAR (extrapolated) = 1.48 W/kg

SAR(1 g) = 1.08 mW/g

Maximum value of SAR (measured) = 1.13 mW/g

