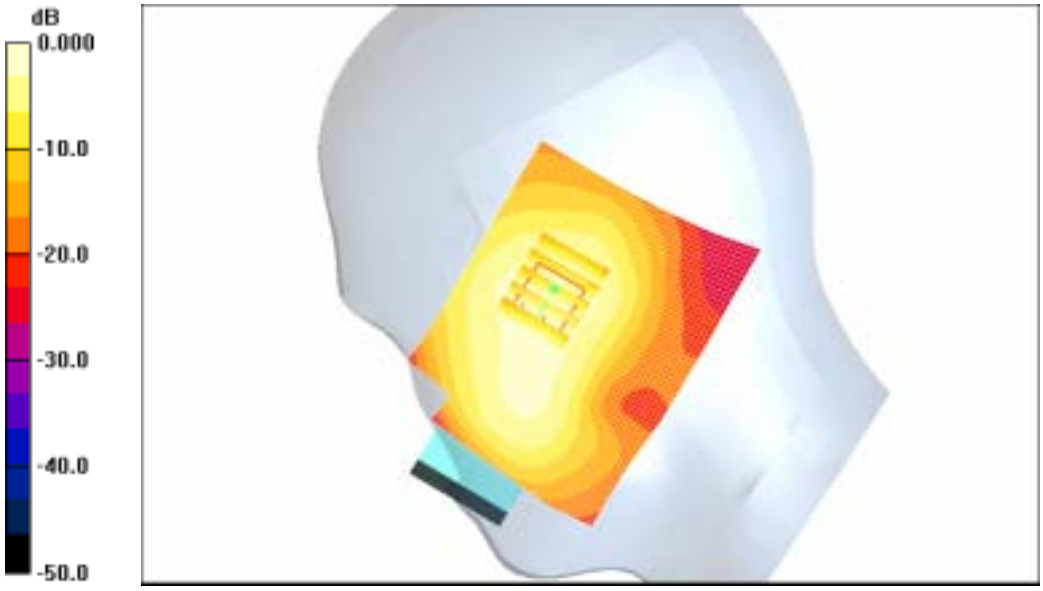
# APPENDIX F

## Plots of The SAR Measurements

SAMSUNG FCC ID : A3LSCHE370 1900MHz GSM1900 Head SAR
DUT: SGH-E370(Up); Serial: FD-017-C
Program Name: SGH-E370 GSM1900 Right Slide Up (Job No. : FD-017)
Procedure Name: Cheek/Touch, Ch.512, Ant.Intenna, Bat.Standard Slide up
Procedure Notes: Meas. Ambient Temp(celsius)-22.0, Tissue Temp(celsius)-21.3; Test Date-14/Feb/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; $\sigma$ = 1.41 mho/m; $\varepsilon_r$ = 38.9; $\rho$ = 1000 kg/$m^3$
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.512, Ant.Intenna, Bat.Standard Slide up/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.38 V/m; Power Drift = -0.028 dB
Peak SAR (extrapolated) = 0.395 W/kg
SAR(1 g) = 0.256 mW/g
Maximum value of SAR (measured) = 0.276 mW/g

Cheek/Touch, Ch.512, Ant.Intenna, Bat.Standard Slide up/Area Scan (51x71x1):
Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.274 mW/g

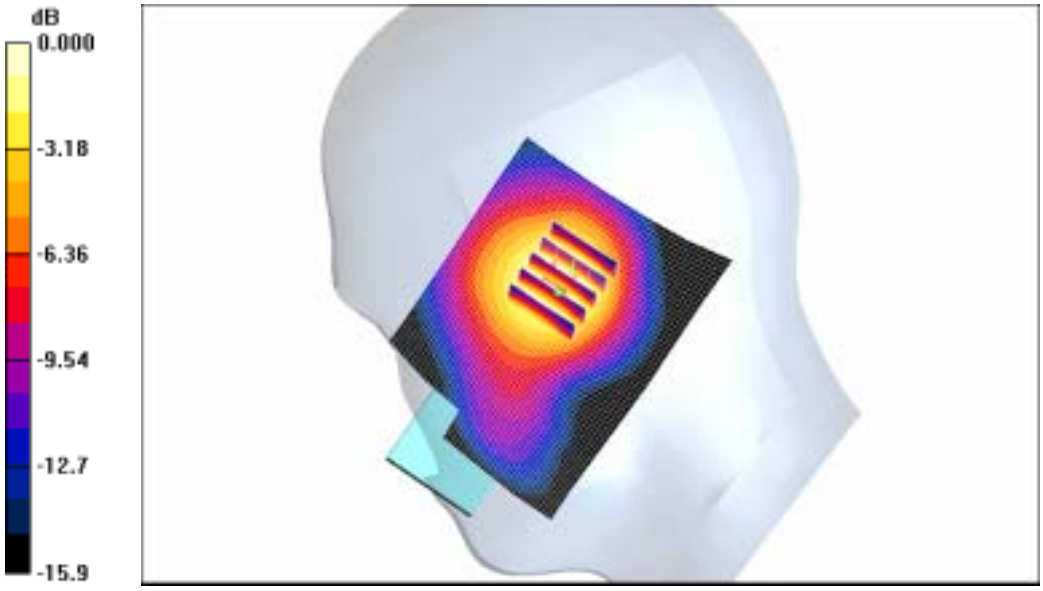



0 dB = 0.274mW/g

SAMSUNG FCC ID : A3LSCHE370 1900MHz GSM1900 Head SAR
DUT: SGH-E370(Up); Serial: FD-017-C
Program Name: SGH-E370 GSM1900 Right Slide Up (Job No. : FD-017)
Procedure Name: Ear/Tilt, Ch.661, Ant.Intenna, Bat.Standard Slide up
Procedure Notes: Meas. Ambient Temp(celsius)-22.0, Tissue Temp(celsius)-21.3; Test Date-14/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; $\sigma$ = 1.41 mho/m; $\varepsilon_r$ = 38.9; $\rho$ = 1000 kg/$m^3$
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) = 0.198 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 = 10.3 V/m; Power Drift = -0.038 dB
Peak SAR (extrapolated) = 0.247 W/kg
SAR(1 g) = 0.167 mW/g
Maximum value of SAR (measured) = 0.178 mW/g

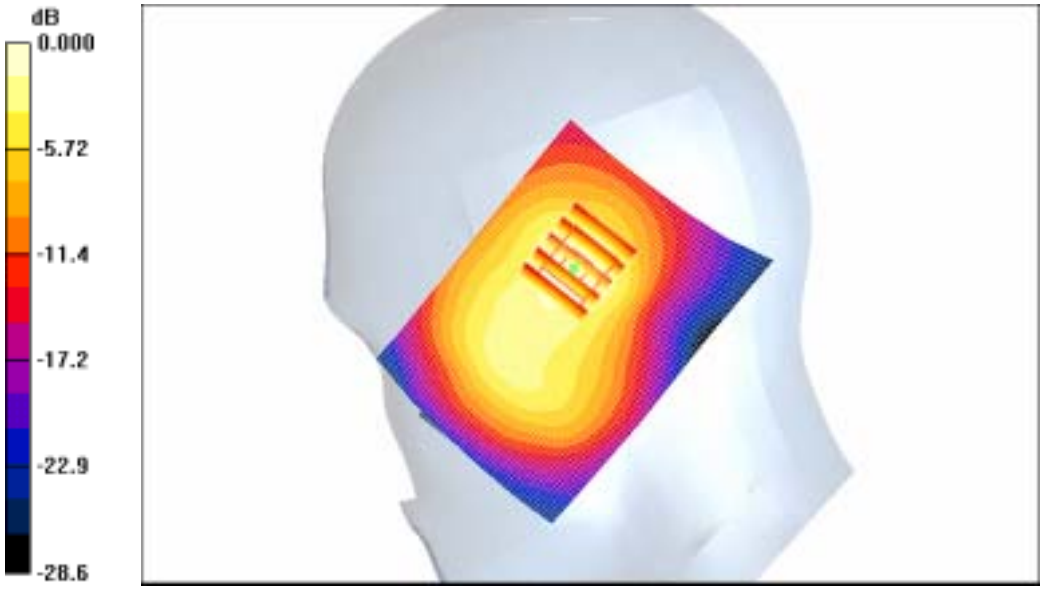



0 dB = 0.178mW/g

SAMSUNG FCC ID : A3LSCHE370 1900MHz GSM1900 Head SAR
DUT: SGH-E370(Down); Serial: FD-017-C
Program Name: SGH-E370 GSM1900 Right Slide Down (Job No. : FD-017)
Procedure Name: Cheek/Touch, Ch.512, Ant.Intenna, Bat.Standard Slide Down
Procedure Notes: Meas. Ambient Temp(celsius)-22.0, Tissue Temp(celsius)-21.3; Test Date-14/Feb/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; $\sigma$ = 1.41 mho/m; $\varepsilon_r$ = 38.9; $\rho$ = 1000 kg/$m^3$
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.512, Ant.Intenna, Bat.Standard Slide Down/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 13.5 V/m; Power Drift = 0.001 dB
Peak SAR (extrapolated) = 0.492 W/kg
SAR(1 g) = 0.300 mW/g
Maximum value of SAR (measured) = 0.335 mW/g

Cheek/Touch, Ch.512, Ant.Intenna, Bat.Standard Slide Down/Area Scan (51x71x1):
Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.319 mW/g

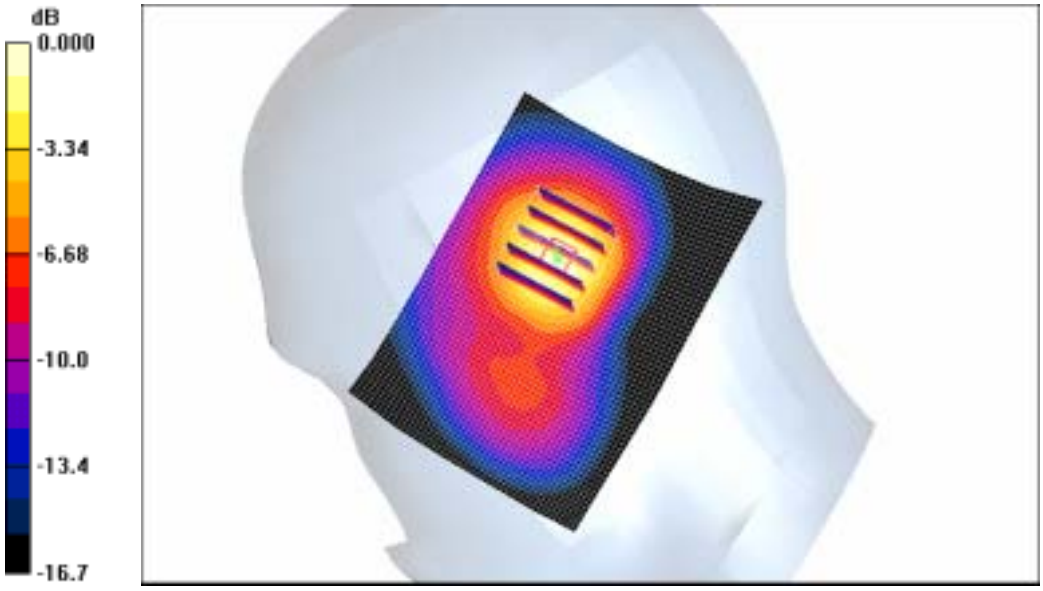



0 dB = 0.319mW/g

SAMSUNG FCC ID : A3LSCHE370 1900MHz GSM1900 Head SAR
DUT: SGH-E370(Down); Serial: FD-017-C
Program Name: SGH-E370 GSM1900 Right Slide Down (Job No. : FD-017)
Procedure Name: Ear/Tilt, Ch.661, Ant.Intenna, Bat.Standard Slide Down
Procedure Notes: Meas. Ambient Temp(celsius)-22.0, Tissue Temp(celsius)-21.3; Test Date-14/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; $\sigma$ = 1.41 mho/m; $\varepsilon_r$ = 38.9; $\rho$ = 1000 kg/$m^3$
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) = 0.267 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 = 12.2 V/m; Power Drift = 0.044 dB
Peak SAR (extrapolated) = 0.410 W/kg
SAR(1 g) = 0.250 mW/g
Maximum value of SAR (measured) = 0.278 mW/g

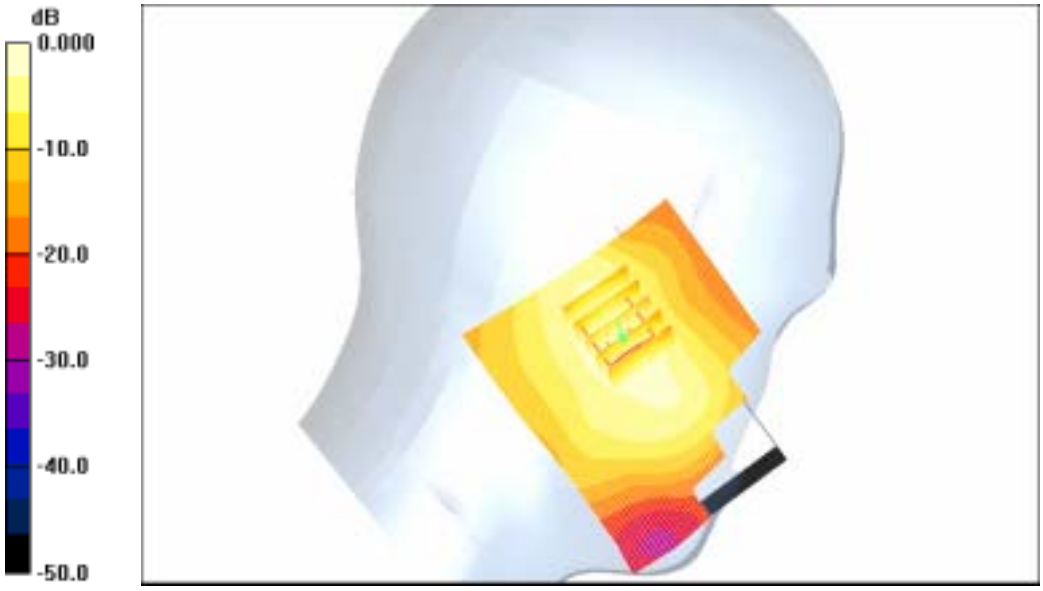



0 dB = 0.278mW/g

SAMSUNG FCC ID : A3LSCHE370 1900MHz GSM1900 Head SAR
DUT: SGH-E370(Up); Serial: FD-017-C
Program Name: SGH-E370 GSM1900 Left Slide Up(Job No. : FD-017)
Procedure Name: Cheek/Touch, Ch.512, Ant.Intenna, Bat.Standard Slide up
Procedure Notes: Meas. Ambient Temp(celsius)-22.0, Tissue Temp(celsius)-21.3; Test Date-14/Feb/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; $\sigma$ = 1.41 mho/m; $\varepsilon_r$ = 38.9; $\rho$ = 1000 kg/$m^3$
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.512, Ant.Intenna, Bat.Standard Slide up/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.97 V/m; Power Drift = -0.193 dB
Peak SAR (extrapolated) = 0.382 W/kg
SAR(1 g) = 0.276 mW/g
Maximum value of SAR (measured) = 0.292 mW/g

Cheek/Touch, Ch.512, Ant.Intenna, Bat.Standard Slide up/Area Scan (51x71x1):
Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.350 mW/g

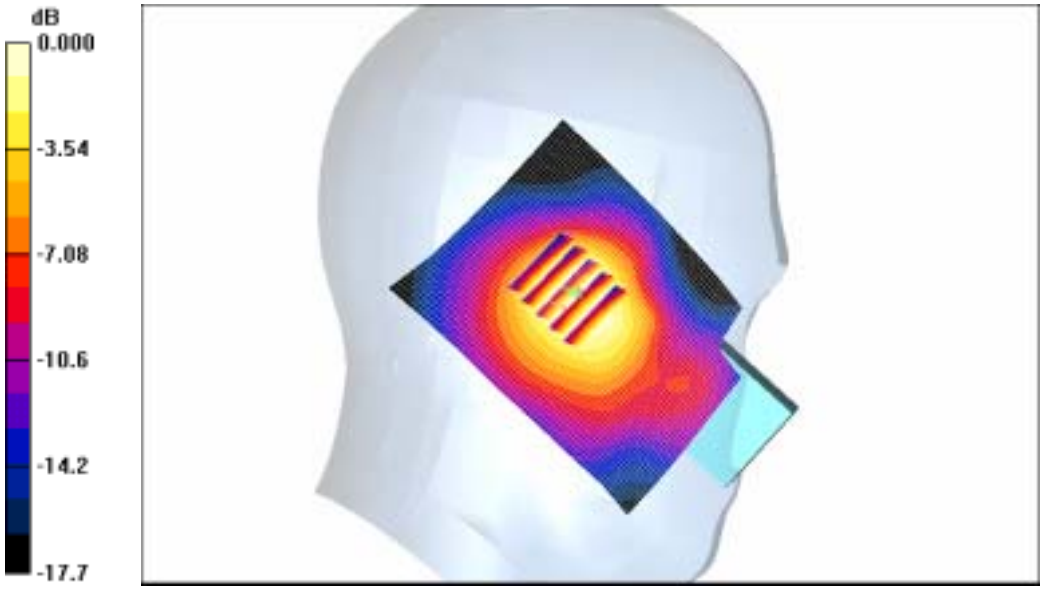



0 dB = 0.350mW/g

SAMSUNG FCC ID : A3LSCHE370 1900MHz GSM1900 Head SAR
DUT: SGH-E370(Up); Serial: FD-017-C
Program Name: SGH-E370 GSM1900 Left Slide Up(Job No. : FD-017)
Procedure Name: Ear/Tilt, Ch.661, Ant.Intenna, Bat.Standard Slide up
Procedure Notes: Meas. Ambient Temp(celsius)-22.0, Tissue Temp(celsius)-21.3; Test Date-14/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; $\sigma$ = 1.41 mho/m; $\varepsilon_r$ = 38.9; $\rho$ = 1000 kg/$m^3$
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) = 0.193 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 = 9.20 V/m; Power Drift = 0.167 dB
Peak SAR (extrapolated) = 0.219 W/kg
SAR(1 g) = 0.149 mW/g
Maximum value of SAR (measured) = 0.161 mW/g

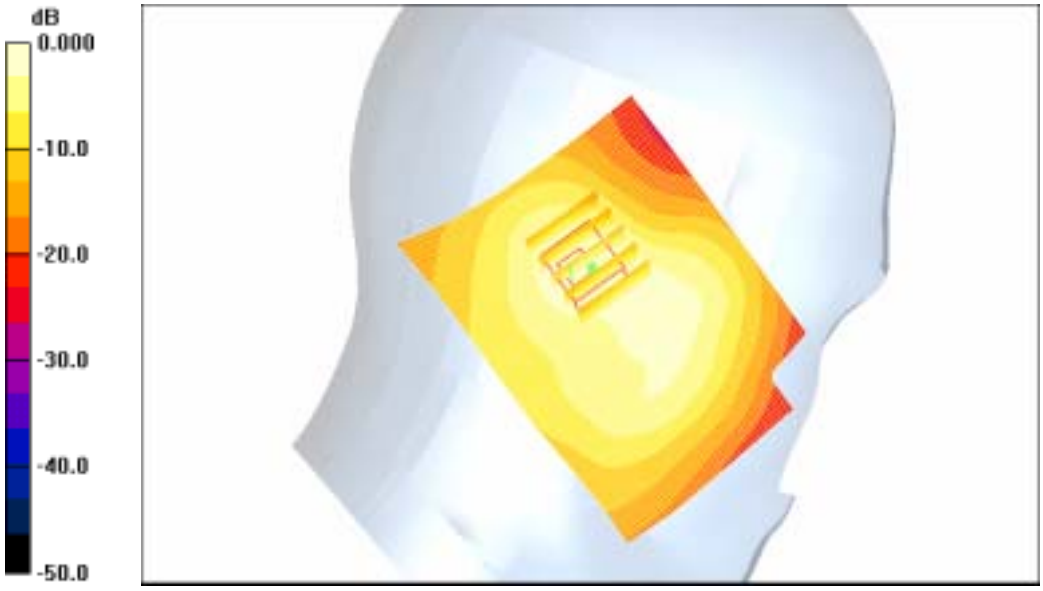



0 dB = 0.161mW/g

SAMSUNG FCC ID : A3LSCHE370 1900MHz GSM1900 Head SAR
DUT: SGH-E370(Down); Serial: FD-017-C
Program Name: SGH-E370 GSM1900 Left Slide Down (Job No. : FD-017)
Procedure Name: Cheek/Touch, Ch.512, Ant.Intenna, Bat.Standard Slide Down
Procedure Notes: Meas. Ambient Temp(celsius)-22.0, Tissue Temp(celsius)-21.3; Test Date-14/Feb/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; $\sigma$ = 1.41 mho/m; $\varepsilon_r$ = 38.9; $\rho$ = 1000 kg/$m^3$
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.512, Ant.Intenna, Bat.Standard Slide Down/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.3 V/m; Power Drift = 0.021 dB
Peak SAR (extrapolated) = 0.349 W/kg
SAR(1 g) = 0.220 mW/g
Maximum value of SAR (measured) = 0.235 mW/g

Cheek/Touch, Ch.512, Ant.Intenna, Bat.Standard Slide Down/Area Scan (51x71x1):
Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.263 mW/g

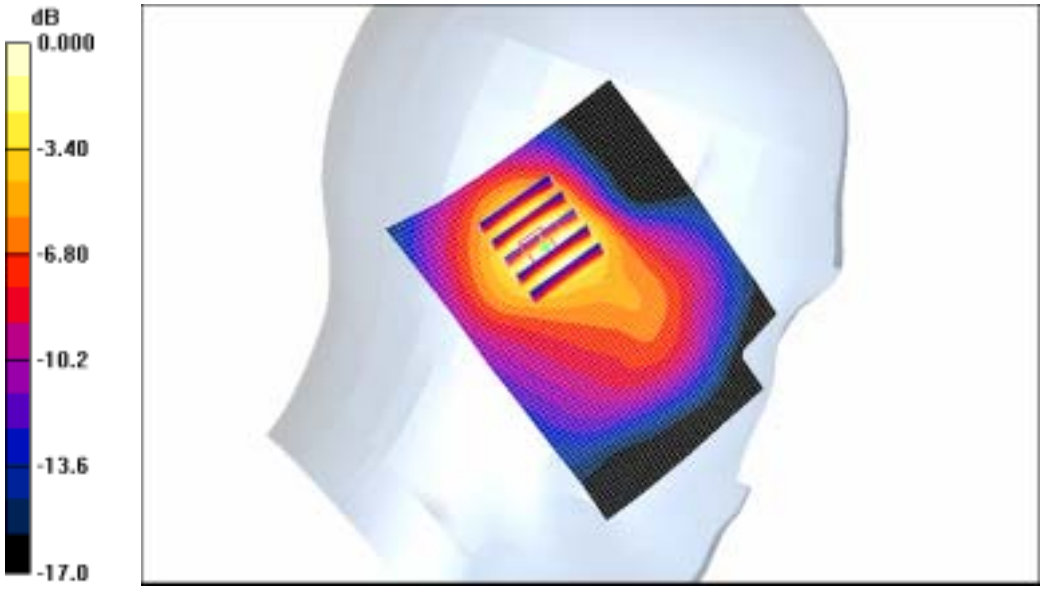



0 dB = 0.263mW/g

SAMSUNG FCC ID : A3LSCHE370 1900MHz GSM1900 Head SAR
DUT: SGH-E370(Down); Serial: FD-017-C
Program Name: SGH-E370 GSM1900 Left Slide Down (Job No. : FD-017)
Procedure Name: Ear/Tilt, Ch.661, Ant.Intenna, Bat.Standard Slide Down
Procedure Notes: Meas. Ambient Temp(celsius)-22.0, Tissue Temp(celsius)-21.3; Test Date-14/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; $\sigma$ = 1.41 mho/m; $\varepsilon_r$ = 38.9; $\rho$ = 1000 kg/$m^3$
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) = 0.227 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 = 11.7 V/m; Power Drift = -0.198 dB
Peak SAR (extrapolated) = 0.334 W/kg
SAR(1 g) = 0.208 mW/g
Maximum value of SAR (measured) = 0.231 mW/g




0 dB = 0.231mW/g

SAMSUNG FCC ID : A3LSGHE370 -- 1900MHz GSM1900 Body SAR

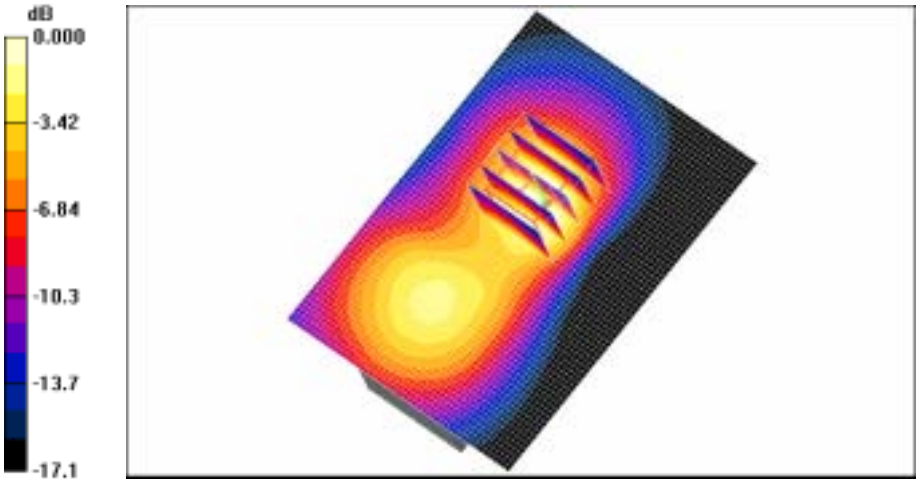
DUT: SGH-E370(Down); Serial: FD-017-C
Program Name: SGH-E370 GSM1900 Body (Job No. : FD-017)
Procedure Name: Body, Ch.512, Ant.Intenna, Bat.Standard With BT ON
Procedure Notes: Meas.Ambient Temp(celsius)-21.8, Tissue Temp(celsius)-21.4; Test Date-14/Feb/2006 [OET Bulletin 65-Supplement C, July 2001]

Communication System: GSM 1900; Frequency: 1850.2 MHz;Duty Cycle: 1:4.15
Medium parameters used: f = 1850.2 MHz; $\sigma$ = 1.55 mho/m; $\varepsilon_r$ = 52; $\rho$ = 1000 kg/$m^3$
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.512, Ant.Intenna, Bat.Standard With BT ON/Area Scan (51x71x1):
Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.938 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 = 25.0 V/m; Power Drift = -0.083 dB
Peak SAR (extrapolated) = 1.33 W/kg
SAR(1 g) = 0.865 mW/g
Maximum value of SAR (measured) = 0.955 mW/g




0 dB = 0.955mW/g

SAMSUNG FCC ID : A3LSGHE370 1900MHz GSM1900 Head SAR
DUT: SGH-E370(Down); Serial: FD-017-C
Program Name: SGH-E370 GSM1900 Right Slide Down (Job No. : FD-017)
Procedure Name: Cheek/Touch, Ch.512, Ant.Intenna, Bat.Standard Slide Down
Procedure Notes: Meas. Ambient Temp(celsius)-22.0, Tissue Temp(celsius)-21.3; Test Date-14/Feb/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; $\sigma$ = 1.41 mho/m; $\varepsilon_r$ = 38.9; $\rho$ = 1000 kg/$m^3$
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.512, Ant.Intenna, Bat.Standard Slide Down/Area Scan (51x71x1):
Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.319 mW/g

Cheek/Touch, Ch.512, Ant.Intenna, Bat.Standard Slide Down/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 13.5 V/m; Power Drift = 0.001 dB
Peak SAR (extrapolated) = 0.492 W/kg
SAR(1 g) = 0.300 mW/g
Maximum value of SAR (measured) = 0.335 mW/g

SAMSUNG FCC ID : A3LSGHE370 -- 1900MHz GSM1900 Body SAR
DUT: SGH-E370(Down); Serial: FD-017-C
Program Name: SGH-E370 GSM1900 Body (Job No. : FD-017)
Procedure Name: Body, Ch.512, Ant.Intenna, Bat.Standard With BT ON
Procedure Notes: Meas.Ambient Temp(celsius)-21.8, Tissue Temp(celsius)-21.4; Test Date-14/Feb/2006 [OET Bulletin 65-Supplement C, July 2001]

Communication System: GSM 1900; Frequency: 1850.2 MHz;Duty Cycle: 1:4.15
Medium parameters used: f = 1850.2 MHz; $\sigma$ = 1.55 mho/m; $\varepsilon_r$ = 52; $\rho$ = 1000 kg/m$^3$
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.512, Ant.Intenna, Bat.Standard With BT ON/Area Scan (51x71x1):
Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.938 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 = 25.0 V/m; Power Drift = -0.083 dB
Peak SAR (extrapolated) = 1.33 W/kg
SAR(1 g) = 0.865 mW/g
Maximum value of SAR (measured) = 0.955 mW/g