

SAMSUNG FCC ID : A3LSGHZ610 1900MHz GSM1900 Head SAR

DUT: SGH-Z610; Serial: FD-109-A

Program Name: SGH-Z610 GSM1900 Right (Job No. : FD-109)

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

Procedure Notes: Meas.Tissue Temp(celsius)-21.8, Ambient Temp-22.1;Test Date-21/Jun/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;  $\sigma = 1.42$  mho/m;  $\epsilon_r = 39.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(5, 5, 5); Calibrated: 2006-05-30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn686; Calibrated: 2006-05-05
- Phantom: SAM PHANTOM #1; Type: SAM; Serial: TP-1247
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

**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 = 19.6 V/m; Power Drift = -0.103 dB

Peak SAR (extrapolated) = 1.80 W/kg

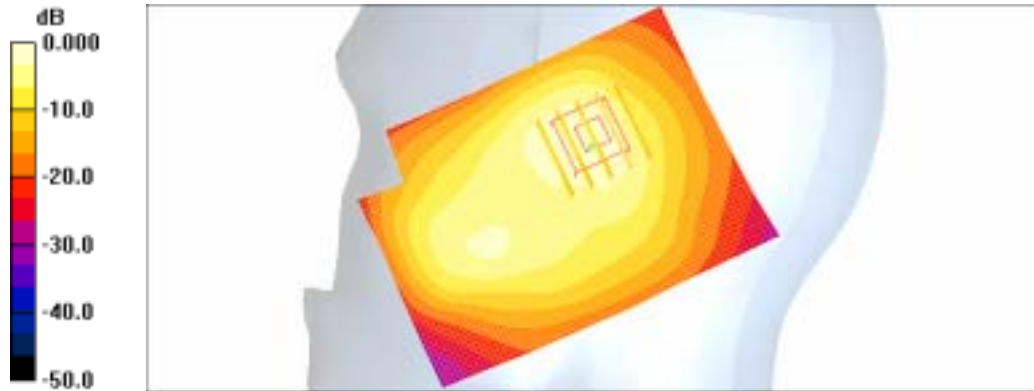
**SAR(1 g) = 1.13 mW/g**

Maximum value of SAR (measured) = 1.17 mW/g

**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) = 1.32 mW/g



0 dB = 1.32mW/g

**SAMSUNG FCC ID : A3LSGHZ610 1900MHz GSM1900 Head SAR**

**DUT: SGH-Z610; Serial: FD-109-A**

**Program Name: SGH-Z610 GSM1900 Right (Job No. : FD-109)**

**Procedure Name: Ear/Tilt, Ch.512, Ant.Intenna, Bat.Standard**

**Procedure Notes: Meas.Tissue Temp(celsius)-21.8, Ambient Temp-22.1;Test Date-21/Jun/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;  $\sigma = 1.42$  mho/m;  $\epsilon_r = 39.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(5, 5, 5); Calibrated: 2006-05-30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn686; Calibrated: 2006-05-05
- Phantom: SAM PHANTOM #1; Type: SAM; Serial: TP-1247
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

**Ear/Tilt, Ch.512, Ant.Intenna, Bat.Standard/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm**

Reference Value = 27.0 V/m; Power Drift = -0.041 dB

Peak SAR (extrapolated) = 1.55 W/kg

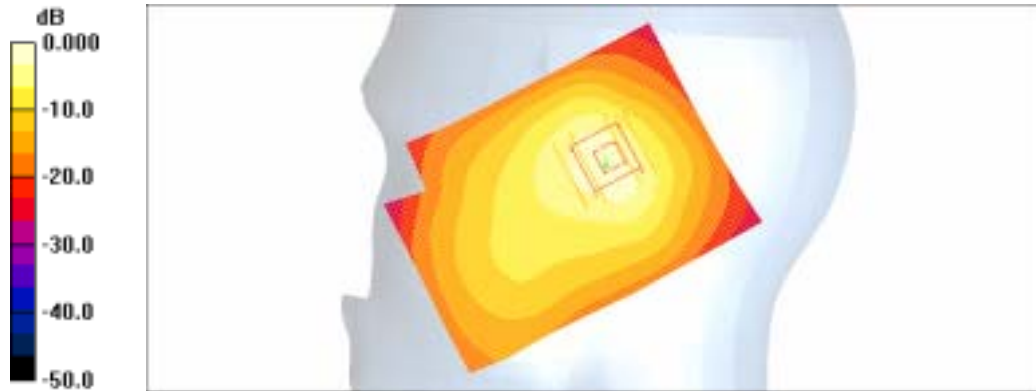
**SAR(1 g) = 1.04 mW/g**

Maximum value of SAR (measured) = 1.10 mW/g

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

dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 1.38 mW/g



0 dB = 1.38mW/g

SAMSUNG FCC ID : A3LSGHZ610 1900MHz GSM1900 Head SAR

DUT: SGH-Z610; Serial: FD-109-A

Program Name: SGH-Z610 GSM1900 Left (Job No. : FD-109)

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

Procedure Notes: Meas.Tissue Temp(celsius)-21.8, Ambient Temp-22.1;Test Date-21/Jun/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;  $\sigma = 1.42$  mho/m;  $\epsilon_r = 39.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(5, 5, 5); Calibrated: 2006-05-30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn686; Calibrated: 2006-05-05
- Phantom: SAM PHANTOM #1; Type: SAM; Serial: TP-1247
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

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

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

Reference Value = 17.8 V/m; Power Drift = -0.036 dB

Peak SAR (extrapolated) = 1.13 W/kg

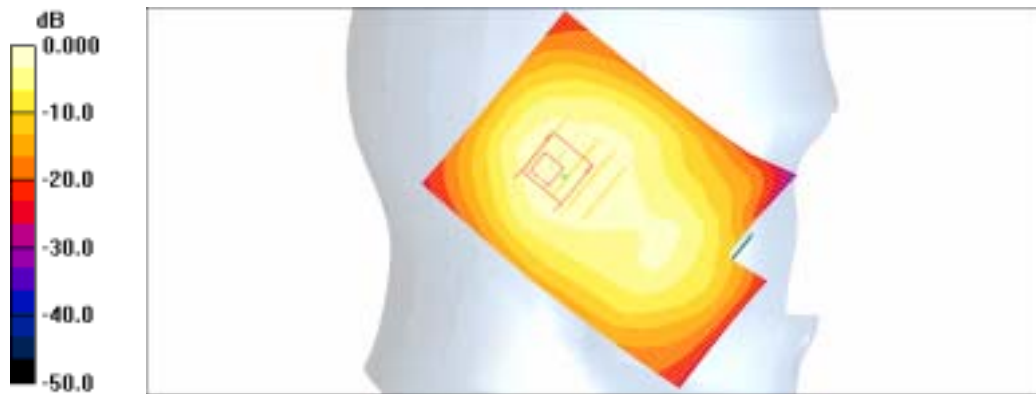
**SAR(1 g) = 0.785 mW/g**

Maximum value of SAR (measured) = 0.836 mW/g

**Cheek/Touch, Ch.512, Ant.Intenna, Bat.Standard/Area Scan (51x71x1):** Measurement

grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.914 mW/g



0 dB = 0.914mW/g

SAMSUNG FCC ID : A3LSGHZ610 1900MHz GSM1900 Head SAR

DUT: SGH-Z610; Serial: FD-109-A

Program Name: SGH-Z610 GSM1900 Left (Job No. : FD-109)

Procedure Name: Ear/Tilt, Ch.512, Ant.Intenna, Bat.Standard

Procedure Notes: Meas.Tissue Temp(celsius)-21.8, Ambient Temp-22.1;Test Date-21/Jun/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;  $\sigma = 1.42$  mho/m;  $\epsilon_r = 39.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(5, 5, 5); Calibrated: 2006-05-30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn686; Calibrated: 2006-05-05
- Phantom: SAM PHANTOM #1; Type: SAM; Serial: TP-1247
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

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

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

Maximum value of SAR (interpolated) = 1.21 mW/g

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

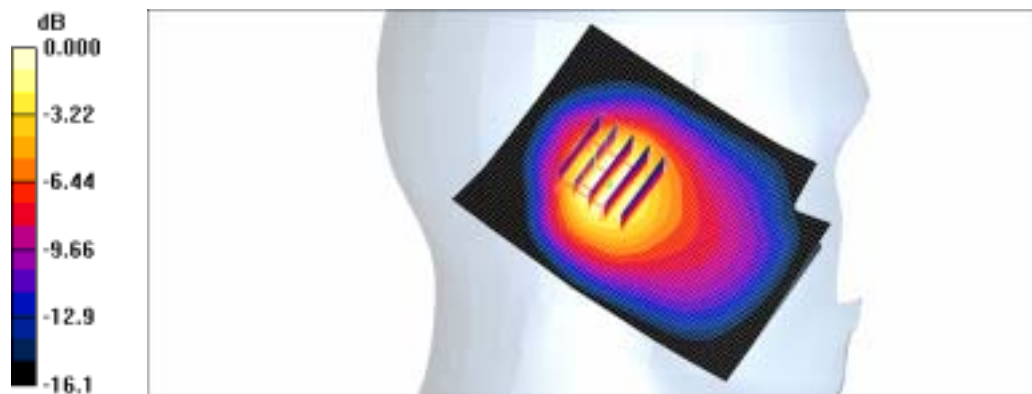
grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 26.3 V/m; Power Drift = -0.018 dB

Peak SAR (extrapolated) = 1.33 W/kg

**SAR(1 g) = 0.907 mW/g**

Maximum value of SAR (measured) = 0.998 mW/g



0 dB = 0.998mW/g

SAMSUNG FCC ID : A3LSGHZ610 1900MHz GSM1900 Body SAR

DUT: SGH-Z610(Body); Serial: FD-109-A

Program Name: SGH-Z610 GPRS1900 Body (Job No. : FD-109)

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

Procedure Notes: Meas.Tissue Temp(celsius)-22.1, Ambient Temp-21.9;Test Date-21/Jun/2006[OET Bulletin 65-Supplement C, July 2001]

Communication System: GSM1900 GPRS; Frequency: 1850.2 MHz;Duty Cycle: 1:4.15  
Medium parameters used:  $f = 1850.2$  MHz;  $\sigma = 1.57$  mho/m;  $\epsilon_r = 51.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(4.5, 4.5, 4.5); Calibrated: 2006-05-30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn686; Calibrated: 2006-05-05
- Phantom: SAM PHANTOM #2; Type: SAM; Serial: TP-1248
- 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 = 22.3 V/m; Power Drift = 0.097 dB

Peak SAR (extrapolated) = 1.10 W/kg

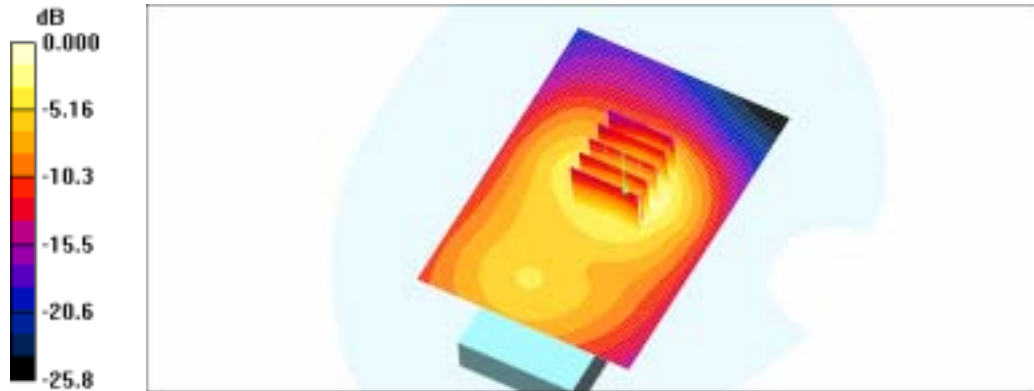
**SAR(1 g) = 0.718 mW/g**

Maximum value of SAR (measured) = 0.760 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) = 0.836 mW/g



0 dB = 0.836mW/g

SAMSUNG FCC ID : A3LSGHZ610 1900MHz GSM1900 Head SAR

DUT: SGH-Z610; Serial: FD-109-A

Program Name: SGH-Z610 GSM1900 Right (Job No. : FD-109)

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

Procedure Notes: Meas.Tissue Temp(celsius)-21.8, Ambient Temp-22.1;Test Date-21/Jun/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;  $\sigma = 1.42$  mho/m;  $\epsilon_r = 39.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(5, 5, 5); Calibrated: 2006-05-30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn686; Calibrated: 2006-05-05
- Phantom: SAM PHANTOM #1; Type: SAM; Serial: TP-1247
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

**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 = 19.6 V/m; Power Drift = -0.103 dB

Peak SAR (extrapolated) = 1.80 W/kg

**SAR(1 g) = 1.13 mW/g**

Maximum value of SAR (measured) = 1.17 mW/g

**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) = 1.32 mW/g



SAMSUNG FCC ID : A3LSGHZ610 1900MHz GSM1900 Body SAR

DUT: SGH-Z610(Body); Serial: FD-109-A

Program Name: SGH-Z610 GPRS1900 Body (Job No. : FD-109)

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

Procedure Notes: Meas.Tissue Temp(celsius)-22.1, Ambient Temp-21.9;Test Date-21/Jun/2006[OET Bulletin 65-Supplement C, July 2001]

Communication System: GSM1900 GPRS; Frequency: 1850.2 MHz;Duty Cycle: 1:4.15  
Medium parameters used:  $f = 1850.2$  MHz;  $\sigma = 1.57$  mho/m;  $\epsilon_r = 51.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(4.5, 4.5, 4.5); Calibrated: 2006-05-30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn686; Calibrated: 2006-05-05
- Phantom: SAM PHANTOM #2; Type: SAM; Serial: TP-1248
- 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 = 22.3 V/m; Power Drift = 0.097 dB

Peak SAR (extrapolated) = 1.10 W/kg

**SAR(1 g) = 0.718 mW/g**

Maximum value of SAR (measured) = 0.760 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) = 0.836 mW/g

