# SAMSUNG FCC ID : A3LSGHE320 -- 1900MHz GSM 1900 Head SAR

## DUT: SGH-E320; Serial: FB-053-C

**Program Name: SGH-E320 GSM1900 Right (Job No.: FB-053)**
**Procedure Name: Cheek/Touch, Ch.810, Ant.Fixed, Bat.Standard**
**Procedure Notes: Meas.Tissue Temp(celsius)-21.2; Test Date-14/Sep/2004 [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; $\sigma$ = 1.38 mho/m; $\varepsilon_r$ = 39.4; $\rho$ = 1000 kg/$m^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1551; ConvF(5, 5, 5); Calibrated: 2004-04-27
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn533; Calibrated: 2003-12-16
- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1248
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 123

## Cheek/Touch, Ch.810, Ant.Fixed, Bat.Standard/Area Scan (81x101x1):

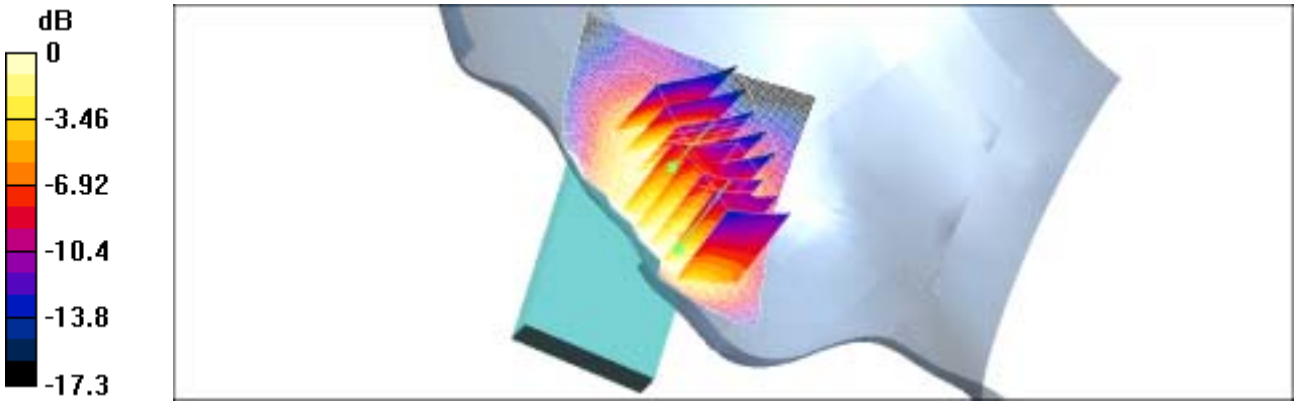
Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.635 mW/g

## Cheek/Touch, Ch.810, Ant.Fixed, Bat.Standard/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.25 V/m; Power Drift = -0.0 dB
Peak SAR (extrapolated) = 0.810 W/kg
**SAR(1 g) = 0.562 mW/g**
Maximum value of SAR (measured) = 0.619 mW/g

## Cheek/Touch, Ch.810, Ant.Fixed, Bat.Standard/Zoom Scan (5x5x7)/Cube 1:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.25 V/m; Power Drift = -0.0 dB
Peak SAR (extrapolated) = 0.703 W/kg
**SAR(1 g) = 0.450 mW/g**
Maximum value of SAR (measured) = 0.502 mW/g




0 dB = 0.502mW/g

# SAMSUNG FCC ID : A3LSGHE320 -- 1900MHz GSM 1900 Head SAR

## DUT: SGH-E320; Serial: FB-053-C

**Program Name: SGH-E320 GSM1900 Right (Job No.: FB-053)**
**Procedure Name: Ear/Tilt, Ch.661, Ant.Fixed, Bat.Standard**
**Procedure Notes: Meas.Tissue Temp(celsius)-21.2; Test Date-14/Sep/2004 [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; $\sigma$ = 1.38 mho/m; $\varepsilon_r$ = 39.4; $\rho$ = 1000 kg/$m^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1551; ConvF(5, 5, 5); Calibrated: 2004-04-27
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn533; Calibrated: 2003-12-16
- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1248
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 123

## Ear/Tilt, Ch.661, Ant.Fixed, Bat.Standard/Area Scan (51x71x1):

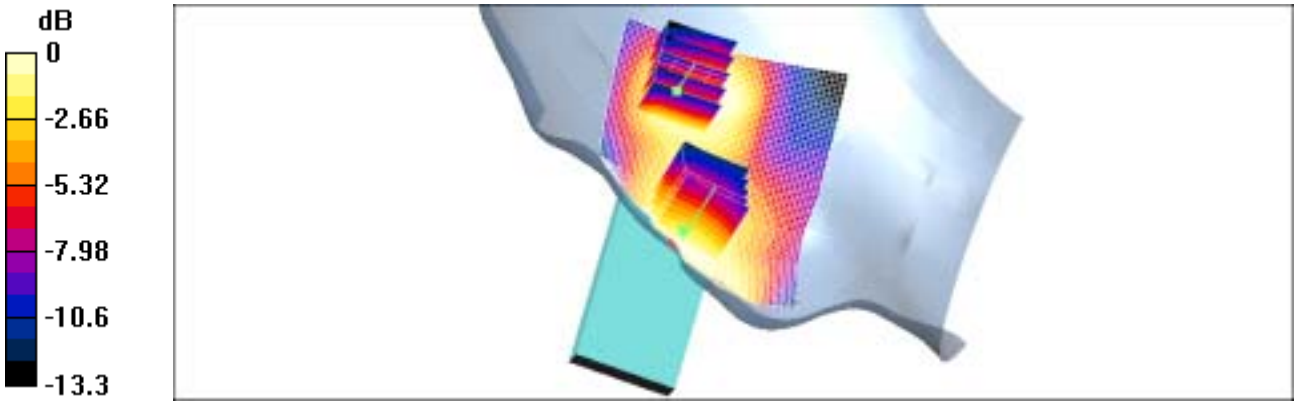
Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.043 mW/g

## Ear/Tilt, Ch.661, Ant.Fixed, Bat.Standard/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.31 V/m; Power Drift = -0.1 dB
Peak SAR (extrapolated) = 0.057 W/kg
**SAR(1 g) = 0.040 mW/g**
Maximum value of SAR (measured) = 0.044 mW/g

## Ear/Tilt, Ch.661, Ant.Fixed, Bat.Standard/Zoom Scan (5x5x7)/Cube 1:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.31 V/m; Power Drift = -0.1 dB
Peak SAR (extrapolated) = 0.050 W/kg
**SAR(1 g) = 0.039 mW/g**
Maximum value of SAR (measured) = 0.041 mW/g




0 dB = 0.041mW/g

# SAMSUNG FCC ID : A3LSGHE320 -- 1900MHz GSM 1900 Head SAR

## DUT: SGH-E320; Serial: FB-053-C

**Program Name: SGH-E320 GSM1900 Left (Job No.: FB-053)**
**Procedure Name: Cheek/Touch, Ch.512, Ant.Fixed, Bat.Standard**
**Procedure Notes: Meas.Tissue Temp(celsius)-21.2; Test Date-14/Sep/2004 [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; $\sigma$ = 1.38 mho/m; $\varepsilon_r$ = 39.4; $\rho$ = 1000 kg/m$^3$

Phantom section: Left Section

DASY4 Configuration:

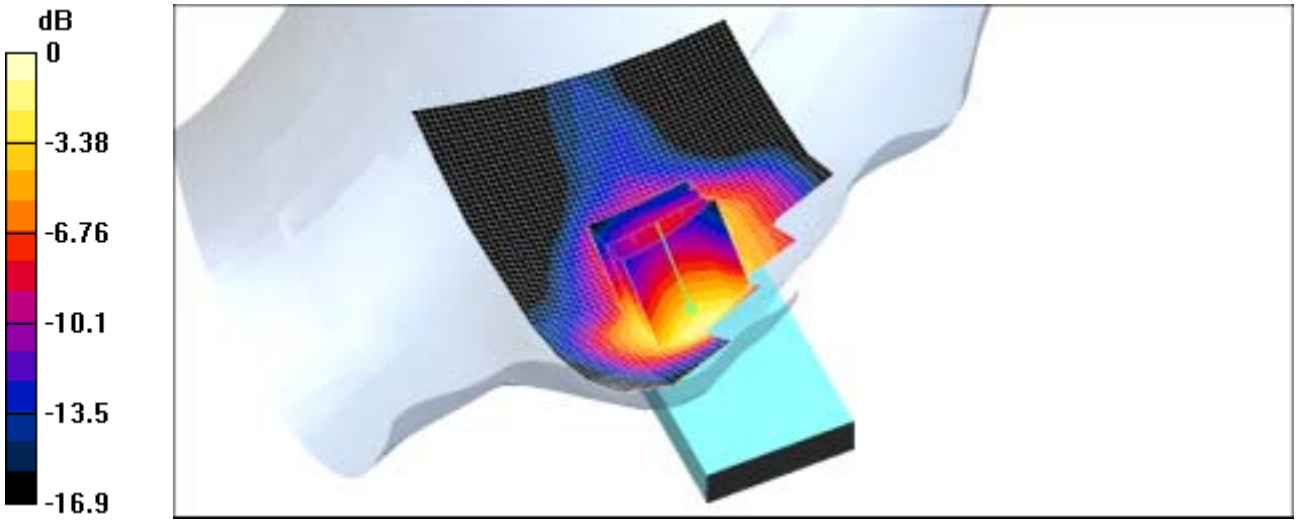
- Probe: ET3DV6 - SN1551; ConvF(5, 5, 5); Calibrated: 2004-04-27
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn533; Calibrated: 2003-12-16
- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1248
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 123

## Cheek/Touch, Ch.512, Ant.Fixed, Bat.Standard/Area Scan (51x71x1):

Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.712 mW/g

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

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 3.75 V/m; Power Drift = 0.0 dB
Peak SAR (extrapolated) = 0.862 W/kg
**SAR(1 g) = 0.647 mW/g**
Maximum value of SAR (measured) = 0.650 mW/g




0 dB = 0.650mW/g

# SAMSUNG FCC ID : A3LSGHE320 -- 1900MHz GSM 1900 Head SAR

## DUT: SGH-E320; Serial: FB-053-C

**Program Name: SGH-E320 GSM1900 Left (Job No.: FB-053)**
**Procedure Name: Ear/Tilt, Ch.661, Ant.Fixed, Bat.Standard**
**Procedure Notes: Meas.Tissue Temp(celsius)-21.2; Test Date-14/Sep/2004 [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; $\sigma$ = 1.38 mho/m; $\varepsilon_r$ = 39.4; $\rho$ = 1000 kg/$m^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1551; ConvF(5, 5, 5); Calibrated: 2004-04-27
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn533; Calibrated: 2003-12-16
- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1248
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 123

## Ear/Tilt, Ch.661, Ant.Fixed, Bat.Standard/Area Scan (61x101x1):

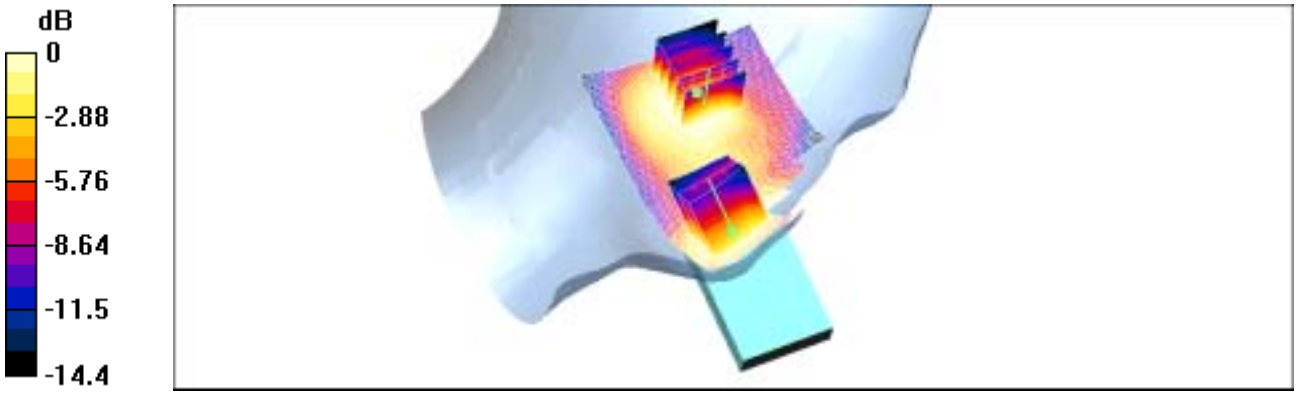
Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.060 mW/g

## Ear/Tilt, Ch.661, Ant.Fixed, Bat.Standard/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.54 V/m; Power Drift = -0.0 dB
Peak SAR (extrapolated) = 0.070 W/kg
**SAR(1 g) = 0.050 mW/g**
Maximum value of SAR (measured) = 0.054 mW/g

## Ear/Tilt, Ch.661, Ant.Fixed, Bat.Standard/Zoom Scan (5x5x7)/Cube 1:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.54 V/m; Power Drift = -0.0 dB
Peak SAR (extrapolated) = 0.058 W/kg
**SAR(1 g) = 0.043 mW/g**
Maximum value of SAR (measured) = 0.044 mW/g




0 dB = 0.044mW/g

# SAMSUNG FCC ID : A3LSGHE320 -- 1900MHz GSM 1900 Body SAR

## DUT: SGH-E320 (Body); Serial: FB-053-C

**Program Name: SGH-E320 GSM1900 Body (Job No.: FB-053)**
**Procedure Name: Body, Ch.0810, Ant.Fixed, Bat.Standard**
**Procedure Notes: Meas.Tissue Temp(celsius)-21.2; Test Date-14/Sep/2004 [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; $\sigma$ = 1.58 mho/m; $\varepsilon_r$ = 51.2; $\rho$ = 1000 kg/m$^3$

Phantom section: Flat Section

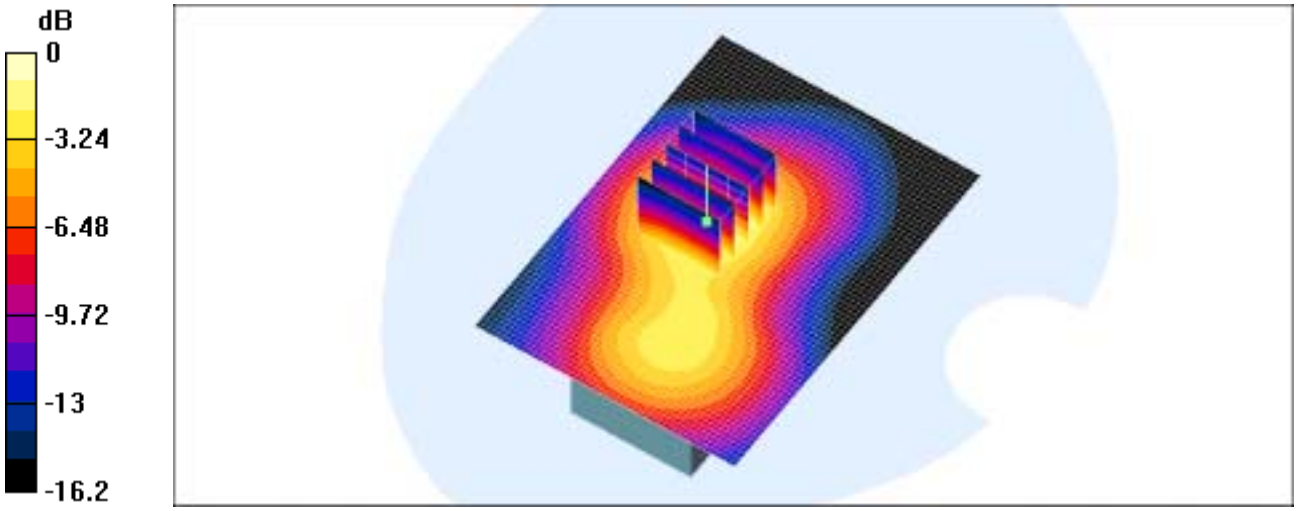
DASY4 Configuration:

- Probe: ET3DV6 - SN1551; ConvF(4.51, 4.51, 4.51); Calibrated: 2004-04-27
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn533; Calibrated: 2003-12-16
- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1248
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 123

## Body, Ch.0810, Ant.Fixed, Bat.Standard/Area Scan (51x71x1): 
Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.353 mW/g

## Body, Ch.0810, Ant.Fixed, Bat.Standard/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.9 V/m; Power Drift = -0.1 dB
Peak SAR (extrapolated) = 0.533 W/kg
**SAR(1 g) = 0.324 mW/g**
Maximum value of SAR (measured) = 0.353 mW/g




0 dB = 0.353mW/g

# SAMSUNG FCC ID : A3LSGHE320 -- 1900MHz GPRS 1900 Body SAR

## DUT: SGH-E320 (Body); Serial: FB-053-C

**Program Name: SGH-E320 GPRS1900 Body (Job No.: FB-053)**
**Procedure Name: Body, Ch.0810, Ant.Fixed, Bat.Standard**
**Procedure Notes: Meas.Tissue Temp(celsius)-21.2; Test Date-14/Sep/2004 [OET Bulletin 65-Supplement C, July 2001]**

Communication System: Body GPRS ; Frequency: 1909.8 MHz;Duty Cycle: 1:4.15

Medium parameters used: f = 1909.8 MHz; $\sigma$ = 1.58 mho/m; $\varepsilon_r$ = 51.2; $\rho$ = 1000 kg/$m^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1551; ConvF(4.51, 4.51, 4.51); Calibrated: 2004-04-27
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn533; Calibrated: 2003-12-16
- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1248
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 123

## Body, Ch.0810, Ant.Fixed, Bat.Standard/Area Scan (51x71x1): Measurement grid: dx=20mm, dy=20mm

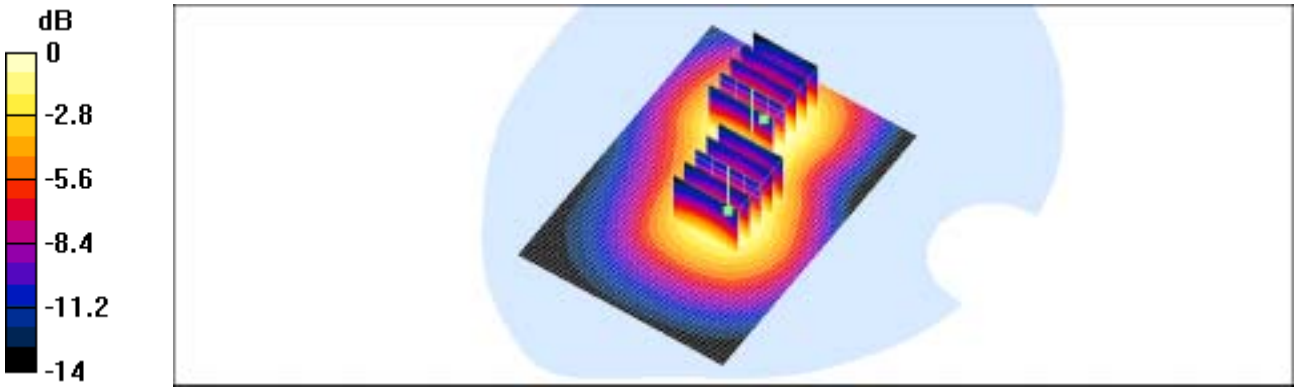
Maximum value of SAR (interpolated) = 0.611 mW/g

## Body, Ch.0810, Ant.Fixed, Bat.Standard/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 18.5 V/m; Power Drift = 0.0 dB
Peak SAR (extrapolated) = 0.966 W/kg
**SAR(1 g) = 0.577 mW/g**
Maximum value of SAR (measured) = 0.614 mW/g

## Body, Ch.0810, Ant.Fixed, Bat.Standard/Zoom Scan 2 (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 18.5 V/m; Power Drift = 0.0 dB
Peak SAR (extrapolated) = 0.625 W/kg
**SAR(1 g) = 0.398 mW/g**
Maximum value of SAR (measured) = 0.429 mW/g




0 dB = 0.429mW/g

# SAMSUNG FCC ID : A3LSGHE320 -- 1900MHz GSM 1900 Head SAR

## DUT: SGH-E320; Serial: FB-053-C

**Program Name: SGH-E320 GSM1900 Left (Job No.: FB-053)**
**Procedure Name: Cheek/Touch, Ch.512, Ant.Fixed, Bat.Standard**
**Procedure Notes: Meas.Tissue Temp(celsius)-21.2; Test Date-14/Sep/2004 [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; $\sigma$ = 1.38 mho/m; $\varepsilon_r$ = 39.4; $\rho$ = 1000 kg/m$^3$

Phantom section: Left Section

DASY4 Configuration:

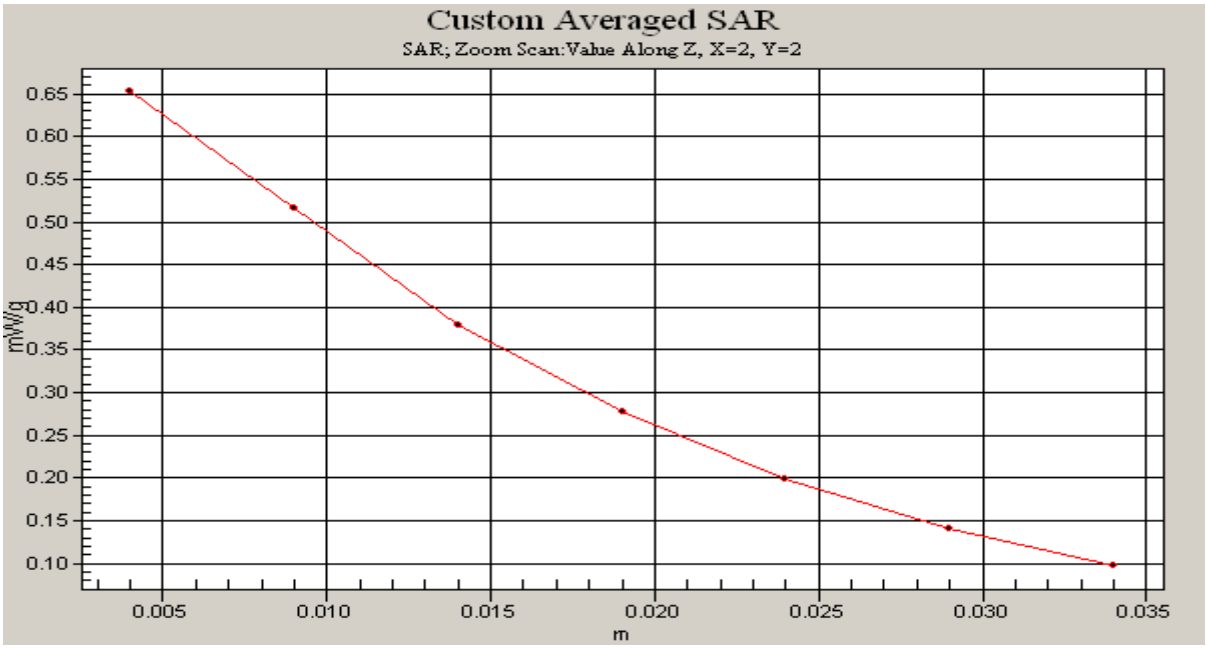
- Probe: ET3DV6 - SN1551; ConvF(5, 5, 5); Calibrated: 2004-04-27
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn533; Calibrated: 2003-12-16
- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1248
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 123

## Cheek/Touch, Ch.512, Ant.Fixed, Bat.Standard/Area Scan (51x71x1):

Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.712 mW/g

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

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 3.75 V/m; Power Drift = 0.0 dB
Peak SAR (extrapolated) = 0.862 W/kg
**SAR(1 g) = 0.647 mW/g**
Maximum value of SAR (measured) = 0.650 mW/g



# SAMSUNG FCC ID : A3LSGHE320 -- 1900MHz GPRS 1900 Body SAR

## DUT: SGH-E320 (Body); Serial: FB-053-C

**Program Name: SGH-E320 GPRS1900 Body (Job No.: FB-053)**
**Procedure Name: Body, Ch.0810, Ant.Fixed, Bat.Standard**
**Procedure Notes: Meas.Tissue Temp(celsius)-21.2; Test Date-14/Sep/2004 [OET Bulletin 65-Supplement C, July 2001]**

Communication System: Body GPRS ; Frequency: 1909.8 MHz;Duty Cycle: 1:4.15

Medium parameters used: f = 1909.8 MHz; $\sigma$ = 1.58 mho/m; $\varepsilon_r$ = 51.2; $\rho$ = 1000 kg/m$^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1551; ConvF(4.51, 4.51, 4.51); Calibrated: 2004-04-27
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn533; Calibrated: 2003-12-16
- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1248
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 123

## Body, Ch.0810, Ant.Fixed, Bat.Standard/Area Scan (51x71x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.611 mW/g

## Body, Ch.0810, Ant.Fixed, Bat.Standard/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 18.5 V/m; Power Drift = 0.0 dB
Peak SAR (extrapolated) = 0.966 W/kg
**SAR(1 g) = 0.577 mW/g**
Maximum value of SAR (measured) = 0.614 mW/g

## Body, Ch.0810, Ant.Fixed, Bat.Standard/Zoom Scan 2 (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 18.5 V/m; Power Drift = 0.0 dB
Peak SAR (extrapolated) = 0.625 W/kg
**SAR(1 g) = 0.398 mW/g**
Maximum value of SAR (measured) = 0.429 mW/g