

SAMSUNG FCC ID : A3LSGHZV30 -- 1900MHz GSM 1900 Head SAR

DUT: SGH-ZV30; Serial: FC-046-B

Program Name: SGH-ZV30 GSM1900 Right (Job No. : FC-046)

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

Procedure Notes: Meas.Tissue Temp(celsius)-21.4; Test Date-15/Apr/2005 [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; $\sigma = 1.4$ mho/m; $\epsilon_r = 39.2$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(8.29, 8.29, 8.29); Calibrated: 2004-12-15

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

- Electronics: DAE3 Sn468; Calibrated: 2004-12-07

- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1248

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Cheek/Touch, Ch.512, Ant.Intenna, Bat.Standard/Area Scan (51x71x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.791 mW/g

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

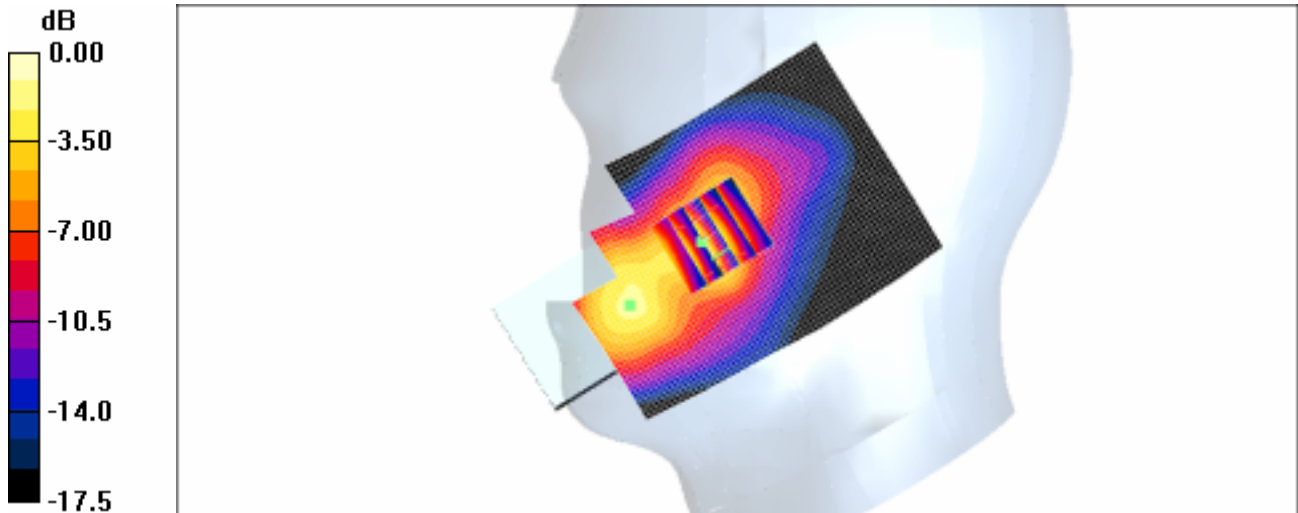
dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.29 V/m; Power Drift = -0.168 dB

Peak SAR (extrapolated) = 1.88 W/kg

SAR(1 g) = 0.937 mW/g

Maximum value of SAR (measured) = 1.01 mW/g



0 dB = 1.01mW/g

SAMSUNG FCC ID : A3LSGHZV30 -- 1900MHz GSM 1900 Head SAR

DUT: SGH-ZV30; Serial: FC-046-B

Program Name: SGH-ZV30 GSM1900 Right (Job No. : FC-046)

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

Procedure Notes: Meas.Tissue Temp(celsius)-21.4; Test Date-15/Apr/2005 [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; $\sigma = 1.4$ mho/m; $\epsilon_r = 39.2$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(8.29, 8.29, 8.29); Calibrated: 2004-12-15
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn468; Calibrated: 2004-12-07
- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1248
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Ear/Tilt, Ch.661, Ant.Intenna, Bat.Standard/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.47 V/m; Power Drift = 0.00 dB

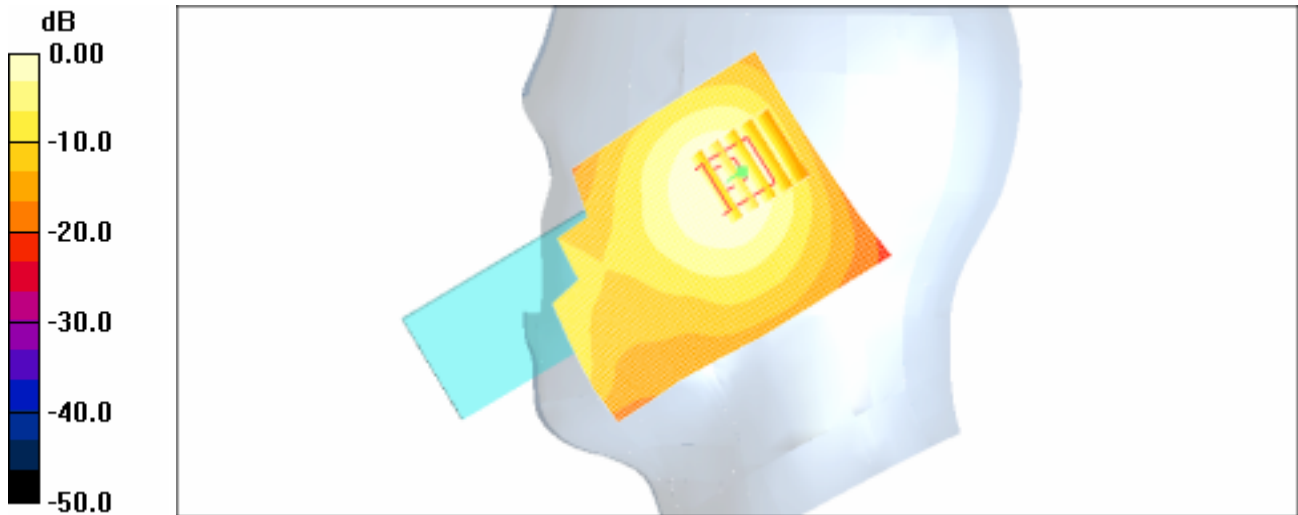
Peak SAR (extrapolated) = 0.320 W/kg

SAR(1 g) = 0.213 mW/g

Maximum value of SAR (measured) = 0.229 mW/g

Ear/Tilt, Ch.661, Ant.Intenna, Bat.Standard/Area Scan (51x71x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.224 mW/g



0 dB = 0.224mW/g

SAMSUNG FCC ID : A3LSGHZV30 -- 1900MHz GSM 1900 Head SAR

DUT: SGH-ZV30; Serial: FC-046-B

Program Name: SGH-ZV30 GSM1900 Left (Job No. : FC-046)

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

Procedure Notes: Meas.Tissue Temp(celsius)-21.4; Test Date-15/Apr/2005 [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; $\sigma = 1.4$ mho/m; $\epsilon_r = 39.2$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(8.29, 8.29, 8.29); Calibrated: 2004-12-15

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

- Electronics: DAE3 Sn468; Calibrated: 2004-12-07

- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1248

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

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

dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.13 V/m; Power Drift = 0.053 dB

Peak SAR (extrapolated) = 1.65 W/kg

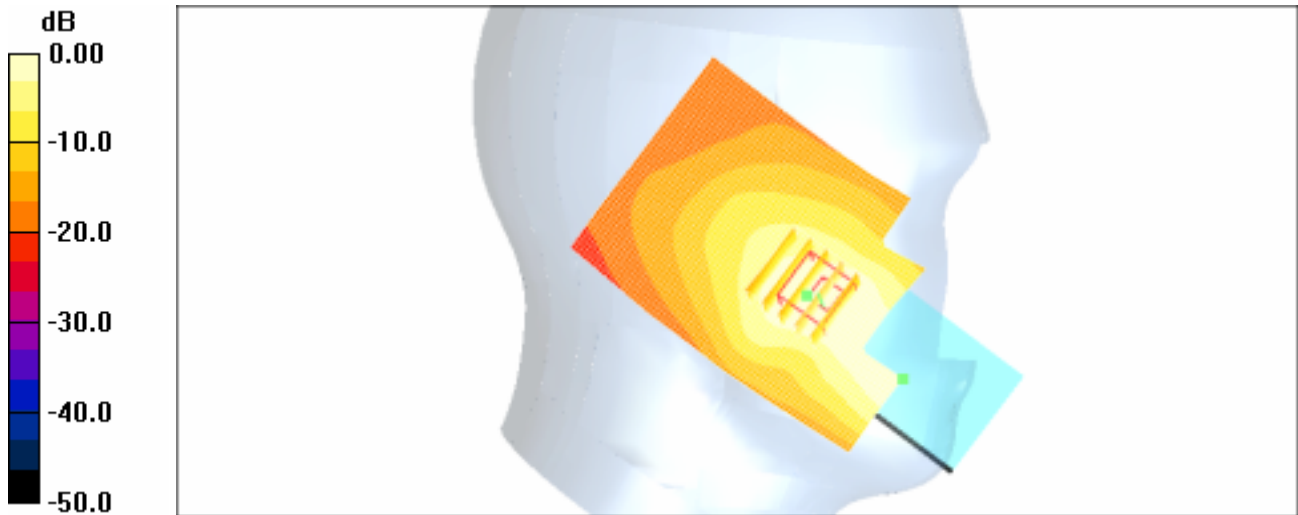
SAR(1 g) = 0.895 mW/g

Maximum value of SAR (measured) = 0.937 mW/g

Cheek/Touch, Ch.512, Ant.Intenna, Bat.Standard/Area Scan (51x71x1): Measurement grid: dx=20mm,

dy=20mm

Maximum value of SAR (interpolated) = 0.698 mW/g



0 dB = 0.698mW/g

SAMSUNG FCC ID : A3LSGHZV30 -- 1900MHz GSM 1900 Head SAR

DUT: SGH-ZV30; Serial: FC-046-B

Program Name: SGH-ZV30 GSM1900 Left (Job No. : FC-046)

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

Procedure Notes: Meas.Tissue Temp(celsius)-21.4; Test Date-15/Apr/2005 [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; $\sigma = 1.4$ mho/m; $\epsilon_r = 39.2$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(8.29, 8.29, 8.29); Calibrated: 2004-12-15
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn468; Calibrated: 2004-12-07
- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1248
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Ear/Tilt, Ch.661, Ant.Intenna, Bat.Standard/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.52 V/m; Power Drift = 0.174 dB

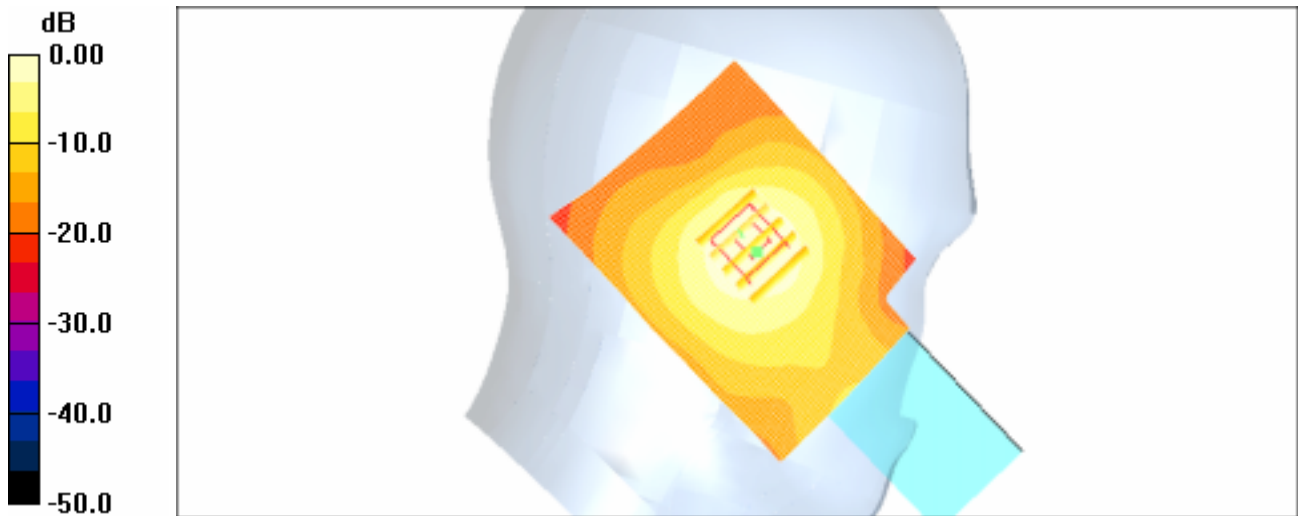
Peak SAR (extrapolated) = 0.336 W/kg

SAR(1 g) = 0.229 mW/g

Maximum value of SAR (measured) = 0.240 mW/g

Ear/Tilt, Ch.661, Ant.Intenna, Bat.Standard/Area Scan (51x71x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.287 mW/g



0 dB = 0.287mW/g

SAMSUNG FCC ID : A3LSGHZV30 -- 1900MHz GSM 1900 Head SAR

DUT: SGH-ZV30; Serial: FC-046-B

Program Name: SGH-ZV30 GSM1900 Right (Job No. : FC-046)

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

Procedure Notes: Meas.Tissue Temp(celsius)-21.4; Test Date-15/Apr/2005 [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; $\sigma = 1.4$ mho/m; $\epsilon_r = 39.2$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(8.29, 8.29, 8.29); Calibrated: 2004-12-15
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn468; Calibrated: 2004-12-07
- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1248
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

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

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

Reference Value = 4.48 V/m; Power Drift = 0.027 dB

Peak SAR (extrapolated) = 1.83 W/kg

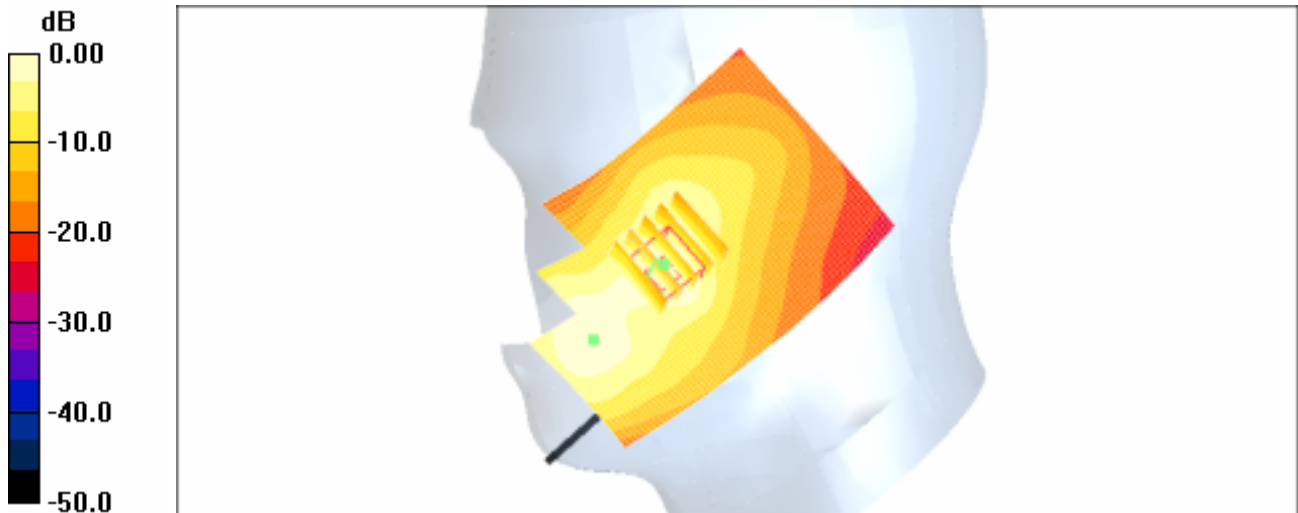
SAR(1 g) = 0.937 mW/g

Maximum value of SAR (measured) = 0.934 mW/g

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

dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.775 mW/g



0 dB = 0.775mW/g

SAMSUNG FCC ID : A3LSGHZV30 -- 1900MHz GPRS 1900 Body SAR

DUT: SGH-ZV30 (Body); Serial: FC-046-B

Program Name: SGH-ZV30 GSM1900 Body (Job No. : FC-046)

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

Procedure Notes: Meas.Tissue Temp(celsius)-21.5; Test Date-15/Apr/2005[OET Bulletin 65-Supplement C, July 2001]

Communication System: Body GPRS ; Frequency: 1850.2 MHz; Duty Cycle: 1:4.15
Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 51.7$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(7.76, 7.76, 7.76); Calibrated: 2004-12-15
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn468; Calibrated: 2004-12-07
- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1248
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

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

Reference Value = 8.23 V/m; Power Drift = -0.110 dB

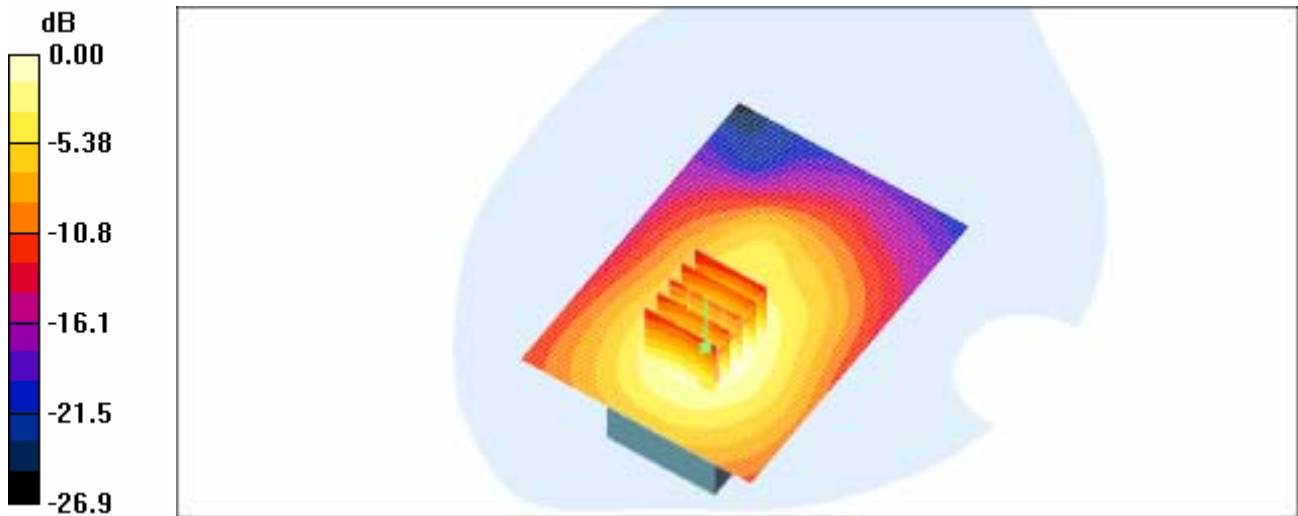
Peak SAR (extrapolated) = 0.615 W/kg

SAR(1 g) = 0.436 mW/g

Maximum value of SAR (measured) = 0.463 mW/g

Body, Ch.512, Ant.Intenna, Bat.Standard/Area Scan (51x71x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.497 mW/g



0 dB = 0.497mW/g

SAMSUNG FCC ID : A3LSGHZV30 -- 1900MHz GPRS 1900 Body SAR

DUT: SGH-ZV30 (Body); Serial: FC-046-B

Program Name: SGH-ZV30 GSM1900 Body (Job No. : FC-046)

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

Procedure Notes: Meas.Tissue Temp(celsius)-21.5; Test Date-15/Apr/2005 [OET Bulletin 65-Supplement C, July 2001]

Communication System: Body GPRS ; Frequency: 1850.2 MHz; Duty Cycle: 1:4.15
Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 51.7$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(7.76, 7.76, 7.76); Calibrated: 2004-12-15
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn468; Calibrated: 2004-12-07
- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1248
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Body, Ch.512, Ant.Intenna, Bat.Standard with BT/Area Scan (51x71x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.517 mW/g

Body, Ch.512, Ant.Intenna, Bat.Standard with BT/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

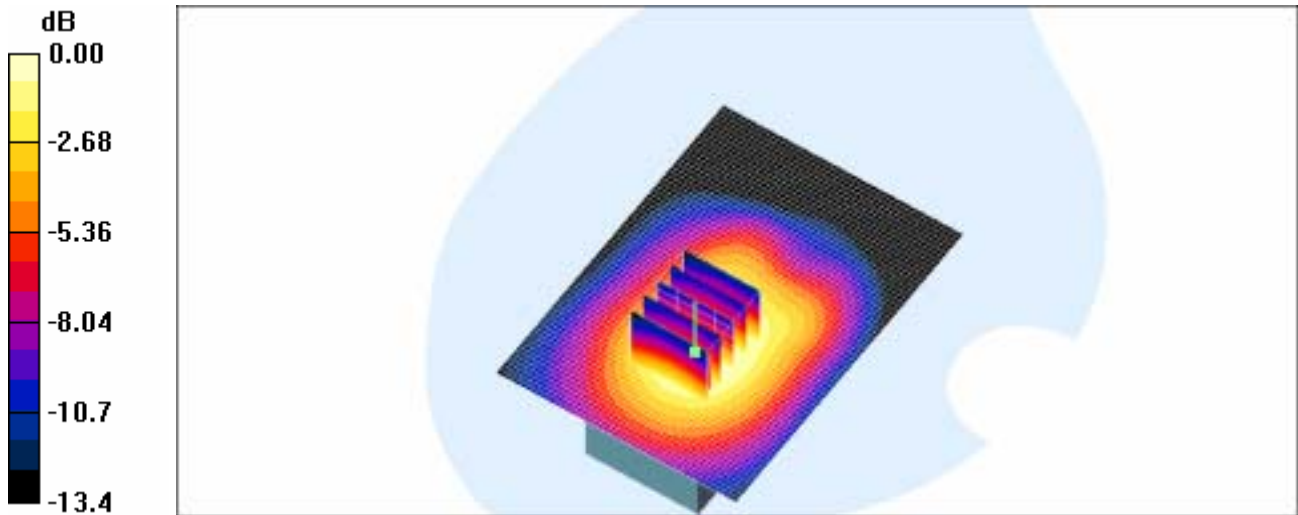
dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.30 V/m; Power Drift = -0.181 dB

Peak SAR (extrapolated) = 0.638 W/kg

SAR(1 g) = 0.452 mW/g

Maximum value of SAR (measured) = 0.481 mW/g



0 dB = 0.481mW/g

SAMSUNG FCC ID : A3LSGHZV30 -- 1900MHz GSM 1900 Head SAR

DUT: SGH-ZV30; Serial: FC-046-B

Program Name: SGH-ZV30 GSM1900 Right (Job No. : FC-046)

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

Procedure Notes: Meas.Tissue Temp(celsius)-21.4; Test Date-15/Apr/2005 [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; $\sigma = 1.4$ mho/m; $\epsilon_r = 39.2$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(8.29, 8.29, 8.29); Calibrated: 2004-12-15

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

- Electronics: DAE3 Sn468; Calibrated: 2004-12-07

- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1248

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Cheek/Touch, Ch.512, Ant.Intenna, Bat.Standard/Area Scan (51x71x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.791 mW/g

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

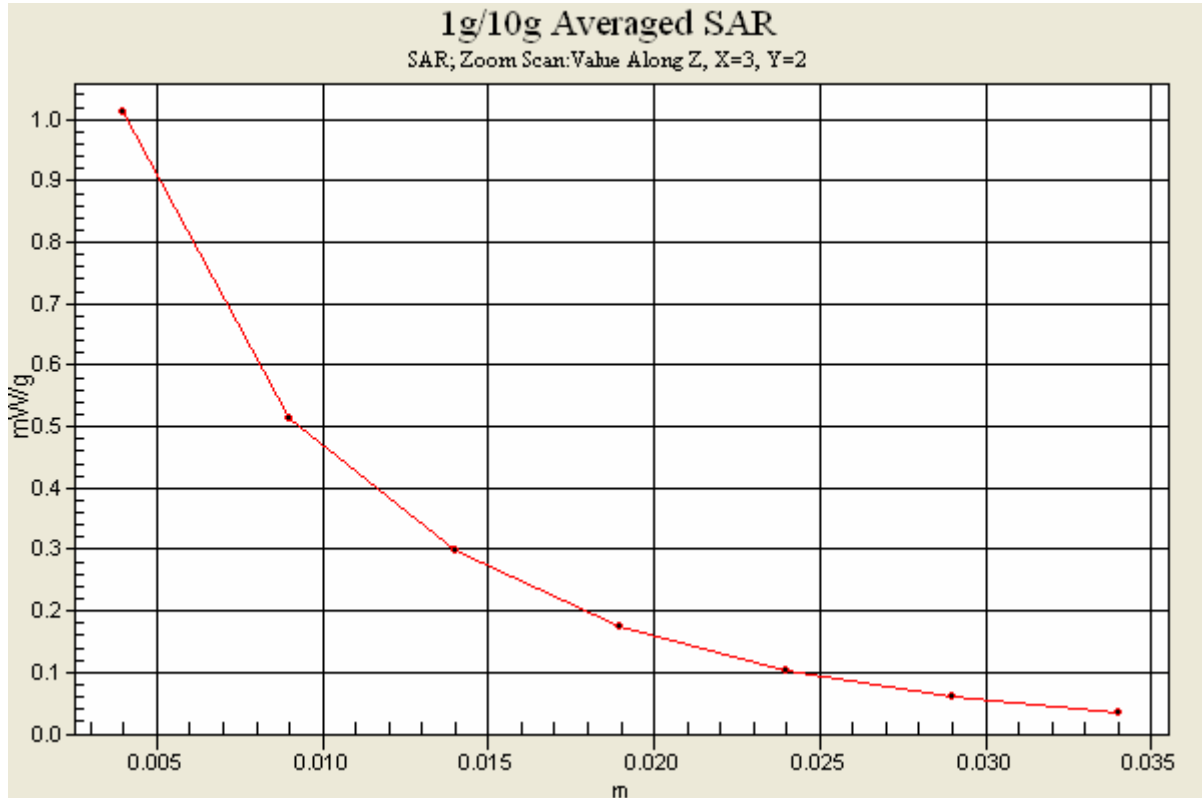
dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.29 V/m; Power Drift = -0.168 dB

Peak SAR (extrapolated) = 1.88 W/kg

SAR(1 g) = 0.937 mW/g

Maximum value of SAR (measured) = 1.01 mW/g



SAMSUNG FCC ID : A3LSGHZV30 -- 1900MHz GSM 1900 Head SAR

DUT: SGH-ZV30; Serial: FC-046-B

Program Name: SGH-ZV30 GSM1900 Right (Job No. : FC-046)

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

Procedure Notes: Meas.Tissue Temp(celsius)-21.4; Test Date-15/Apr/2005 [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; $\sigma = 1.4$ mho/m; $\epsilon_r = 39.2$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(8.29, 8.29, 8.29); Calibrated: 2004-12-15
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn468; Calibrated: 2004-12-07
- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1248
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

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

dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.775 mW/g

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

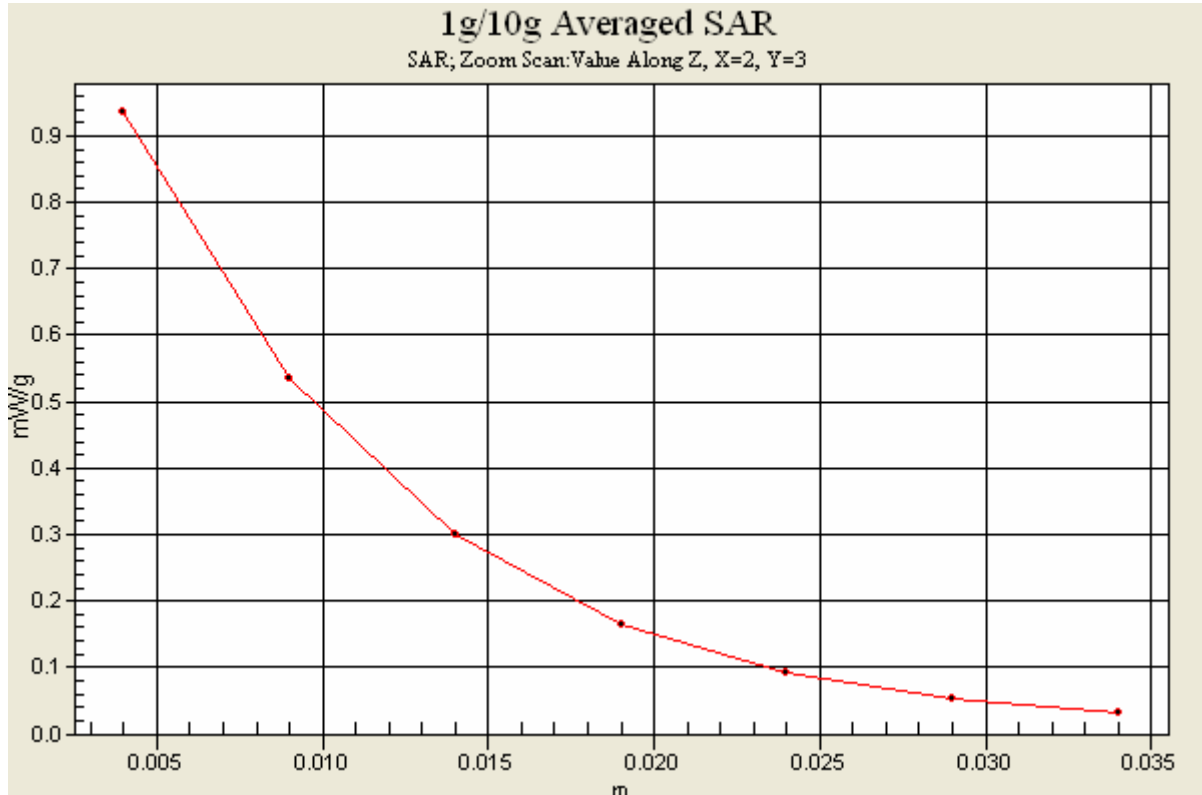
grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.48 V/m; Power Drift = 0.027 dB

Peak SAR (extrapolated) = 1.83 W/kg

SAR(1 g) = 0.937 mW/g

Maximum value of SAR (measured) = 0.934 mW/g



SAMSUNG FCC ID : A3LSGHZV30 -- 1900MHz GPRS 1900 Body SAR

DUT: SGH-ZV30 (Body); Serial: FC-046-B

Program Name: SGH-ZV30 GSM1900 Body (Job No. : FC-046)

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

Procedure Notes: Meas.Tissue Temp(celsius)-21.5; Test Date-15/Apr/2005 [OET Bulletin 65-Supplement C, July 2001]

Communication System: Body GPRS ; Frequency: 1850.2 MHz; Duty Cycle: 1:4.15
Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 51.7$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(7.76, 7.76, 7.76); Calibrated: 2004-12-15
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn468; Calibrated: 2004-12-07
- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1248
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Body, Ch.512, Ant.Intenna, Bat.Standard/Area Scan (51x71x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.497 mW/g

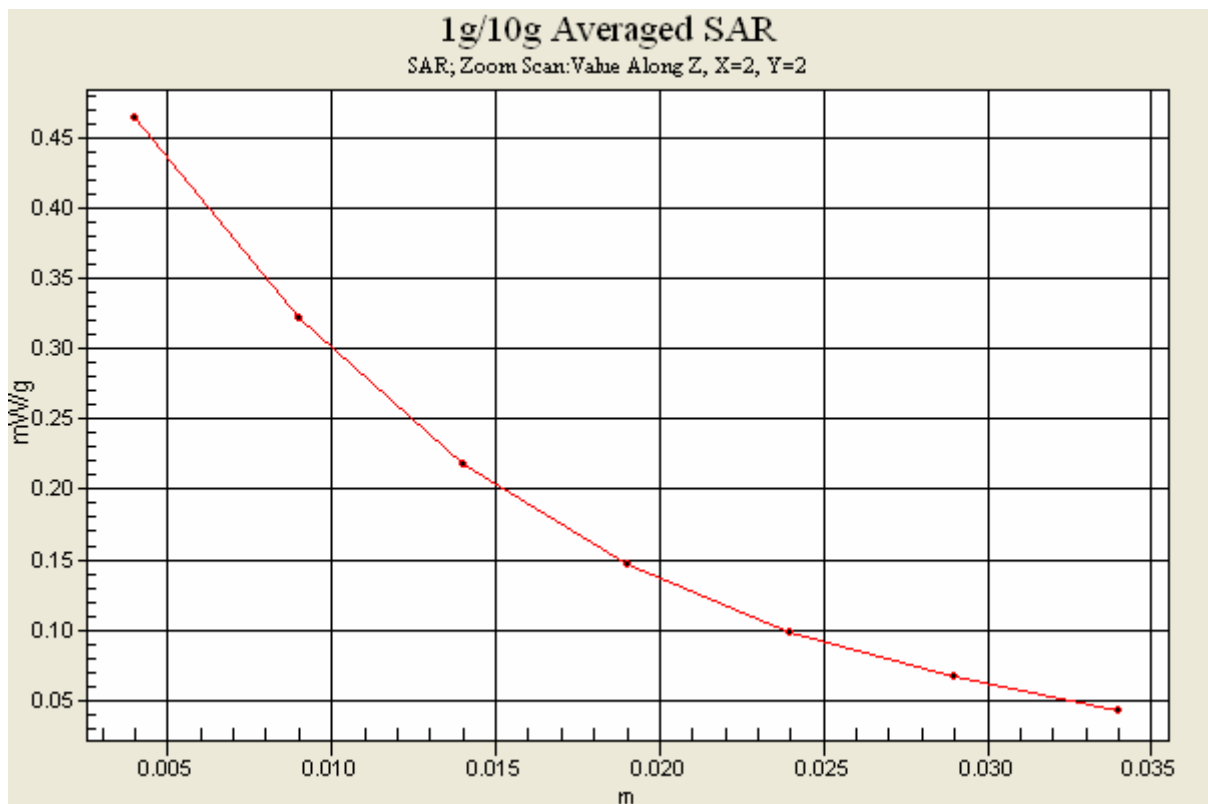
Body, Ch.512, Ant.Intenna, Bat.Standard/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.23 V/m; Power Drift = -0.110 dB

Peak SAR (extrapolated) = 0.615 W/kg

SAR(1 g) = 0.436 mW/g

Maximum value of SAR (measured) = 0.463 mW/g



SAMSUNG FCC ID : A3LSGHZV30 -- 1900MHz GPRS 1900 Body SAR

DUT: SGH-ZV30 (Body); Serial: FC-046-B

Program Name: SGH-ZV30 GSM1900 Body (Job No. : FC-046)

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

Procedure Notes: Meas.Tissue Temp(celsius)-21.5; Test Date-15/Apr/2005 [OET Bulletin 65-Supplement C, July 2001]

Communication System: Body GPRS ; Frequency: 1850.2 MHz; Duty Cycle: 1:4.15
Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 51.7$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(7.76, 7.76, 7.76); Calibrated: 2004-12-15
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn468; Calibrated: 2004-12-07
- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1248
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Body, Ch.512, Ant.Intenna, Bat.Standard with BT/Area Scan (51x71x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.517 mW/g

Body, Ch.512, Ant.Intenna, Bat.Standard with BT/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.30 V/m; Power Drift = -0.181 dB

Peak SAR (extrapolated) = 0.638 W/kg

SAR(1 g) = 0.452 mW/g

Maximum value of SAR (measured) = 0.481 mW/g

