

SAMSUNG FCC ID : A3LSGHZ320I 1900MHz GSM1900 Head SAR

DUT: SGH-Z320i(Down); Serial: FC-144-B

Program Name: SGH-Z320i GSM1900 Right (Slide.Down, Job No. : FC-144)

Procedure Name: Cheek/Touch, Ch.661, Ant.Intenna, Bat.Standard

Procedure Notes: Meas.Tissue Temp(celsius)-21.6; Test Date-17/Oct/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; $\sigma = 1.39$ mho/m; $\epsilon_r = 38.6$; $\rho = 1000$ 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, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

Cheek/Touch, Ch.661, Ant.Intenna, Bat.Standard/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 16.5 V/m; Power Drift = -0.010 dB

Peak SAR (extrapolated) = 0.676 W/kg

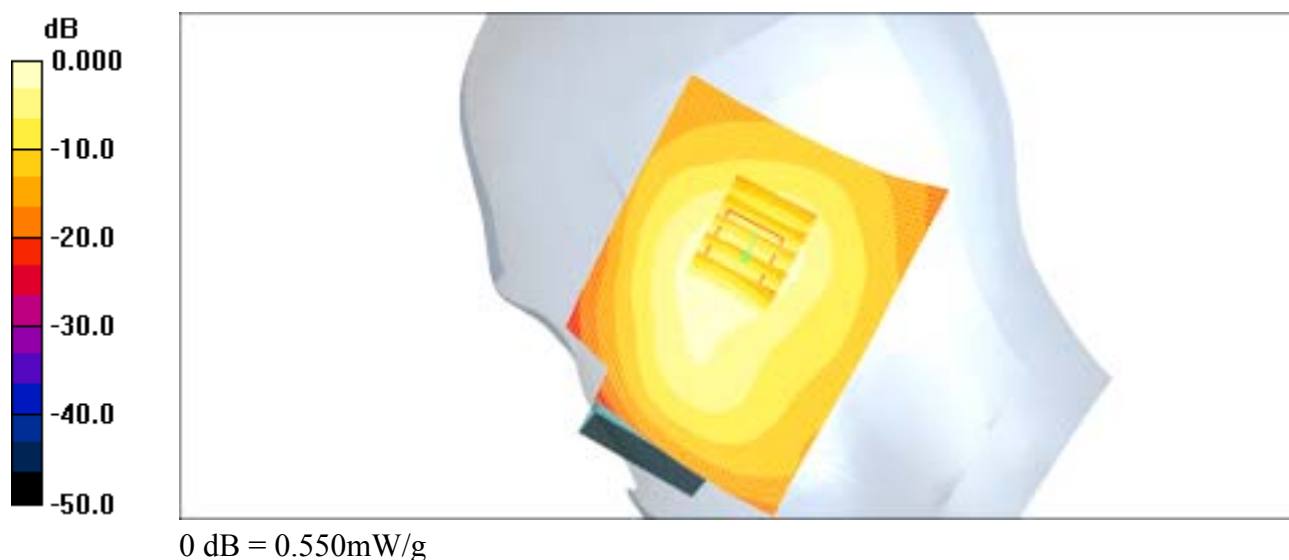
SAR(1 g) = 0.458 mW/g

Maximum value of SAR (measured) = 0.479 mW/g

Cheek/Touch, Ch.661, Ant.Intenna, Bat.Standard/Area Scan (51x71x1): Measurement

grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.550 mW/g



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

Procedure Notes: Meas.Tissue Temp(celsius)-21.6; Test Date-17/Oct/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; $\sigma = 1.39$ mho/m; $\epsilon_r = 38.6$; $\rho = 1000$ 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)
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- Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

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

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

Maximum value of SAR (interpolated) = 0.511 mW/g

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

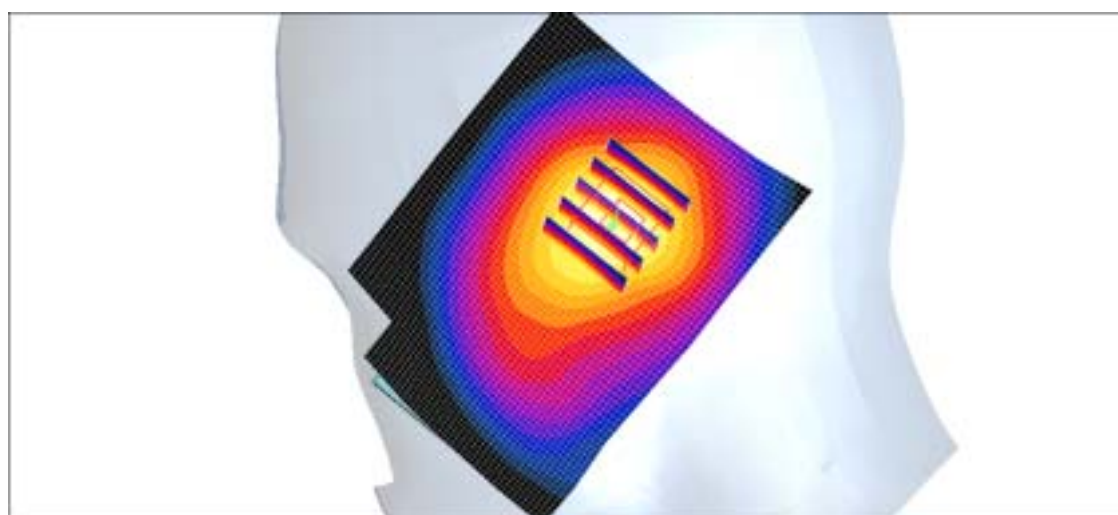
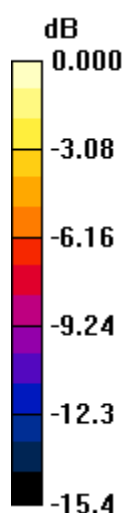
Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 18.2 V/m; Power Drift = -0.124 dB

Peak SAR (extrapolated) = 0.713 W/kg

SAR(1 g) = 0.449 mW/g

Maximum value of SAR (measured) = 0.484 mW/g



0 dB = 0.484mW/g

SAMSUNG FCC ID : A3LSGHZ320I 1900MHz GSM1900 Head SAR

DUT: SGH-Z320i(Down); Serial: FC-144-B

Program Name: SGH-Z320i GSM1900 Left (Slide.Down, Job No. : FC-144)

Procedure Name: Cheek/Touch, Ch.661, Ant.Intenna, Bat.Standard

Procedure Notes: Meas.Tissue Temp(celsius)-21.6; Test Date-17/Oct/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; $\sigma = 1.39$ mho/m; $\epsilon_r = 38.6$; $\rho = 1000$ 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, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

Cheek/Touch, Ch.661, Ant.Intenna, Bat.Standard/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 14.1 V/m; Power Drift = -0.154 dB

Peak SAR (extrapolated) = 0.627 W/kg

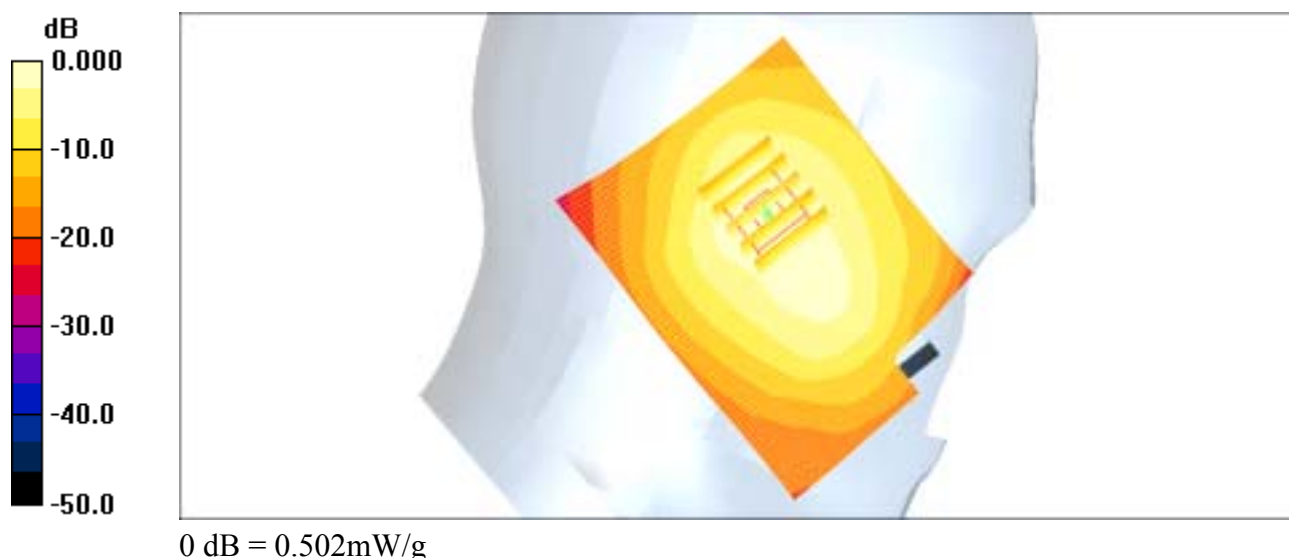
SAR(1 g) = 0.409 mW/g

Maximum value of SAR (measured) = 0.446 mW/g

Cheek/Touch, Ch.661, Ant.Intenna, Bat.Standard/Area Scan (51x71x1): Measurement

grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.502 mW/g



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DUT: SGH-Z320i(Down); Serial: FC-144-B

Program Name: SGH-Z320i GSM1900 Left (Slide.Down, Job No. : FC-144)

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

Procedure Notes: Meas.Tissue Temp(celsius)-21.6; Test Date-17/Oct/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; $\sigma = 1.39$ mho/m; $\epsilon_r = 38.6$; $\rho = 1000$ 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, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

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

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

Reference Value = 15.4 V/m; Power Drift = -0.088 dB

Peak SAR (extrapolated) = 0.611 W/kg

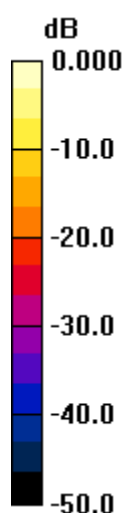
SAR(1 g) = 0.390 mW/g

Maximum value of SAR (measured) = 0.418 mW/g

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

dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.452 mW/g



0 dB = 0.452mW/g

SAMSUNG FCC ID : A3LSGHZ320I 1900MHz GSM1900 Head SAR

DUT: SGH-Z320i(Down); Serial: FC-144-B

Program Name: SGH-Z320i GSM1900 Right (Slide.Down, Job No. : FC-144)

Procedure Name: Cheek/Touch, Ch.661, Ant.Intenna, Bat.Standard With BT ON

Procedure Notes: Meas.Tissue Temp(celsius)-21.6; Test Date-17/Oct/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; $\sigma = 1.39$ mho/m; $\epsilon_r = 38.6$; $\rho = 1000$ 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, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

Cheek/Touch, Ch.661, Ant.Intenna, Bat.Standard With BT ON/Zoom Scan

(5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.3 V/m; Power Drift = 0.013 dB

Peak SAR (extrapolated) = 0.663 W/kg

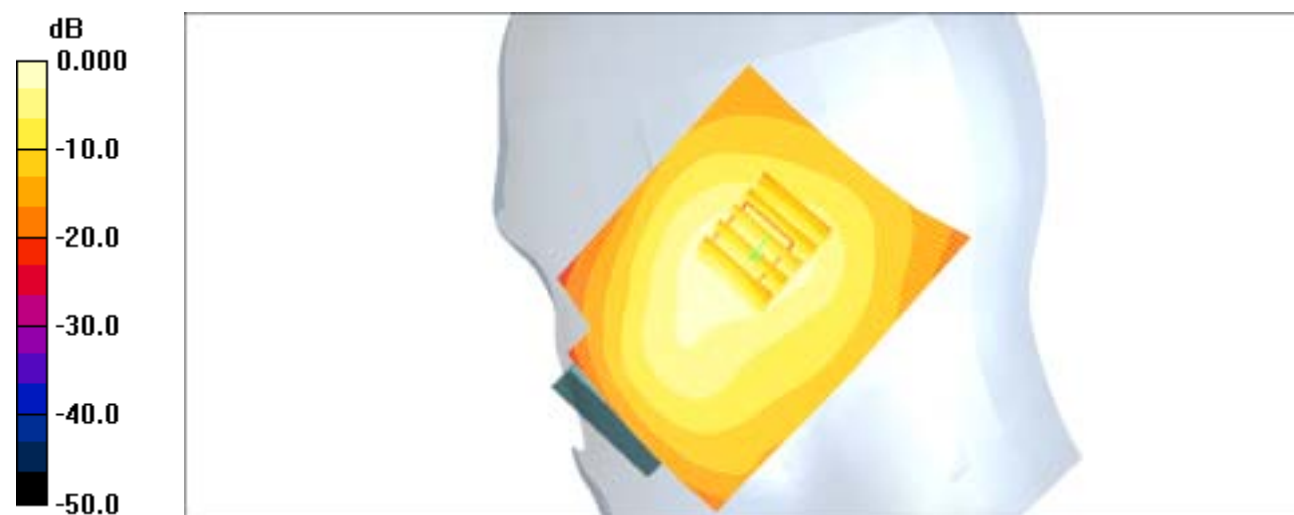
SAR(1 g) = 0.450 mW/g

Maximum value of SAR (measured) = 0.470 mW/g

Cheek/Touch, Ch.661, Ant.Intenna, Bat.Standard With BT ON/Area Scan

(51x71x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.533 mW/g



0 dB = 0.533mW/g

SAMSUNG FCC ID : A3LSGHZ230I 1900MHz GPRS1900 Body SAR

DUT: SGH-Z320i(Body); Serial: FC-144-B

Program Name: SGH-Z320i GSM1900 Body (Job No. : FC-144)

Procedure Name: Body, Ch.661, Ant.Intenna, Bat.Standard

Procedure Notes: Meas.Tissue Temp(celsius)-21.6; Test Date-17/Oct/2005 [OET Bulletin 65-Supplement C, July 2001]

Communication System: Body GPRS ; Frequency: 1880 MHz;Duty Cycle: 1:4.15

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.53$ mho/m; $\epsilon_r = 51.8$; $\rho = 1000$ 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, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

Body, Ch.661, Ant.Intenna, Bat.Standard/Area Scan (51x71x1): Measurement grid:

dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.772 mW/g

Body, Ch.661, Ant.Intenna, Bat.Standard/Zoom Scan (5x5x7)/Cube 0: Measurement

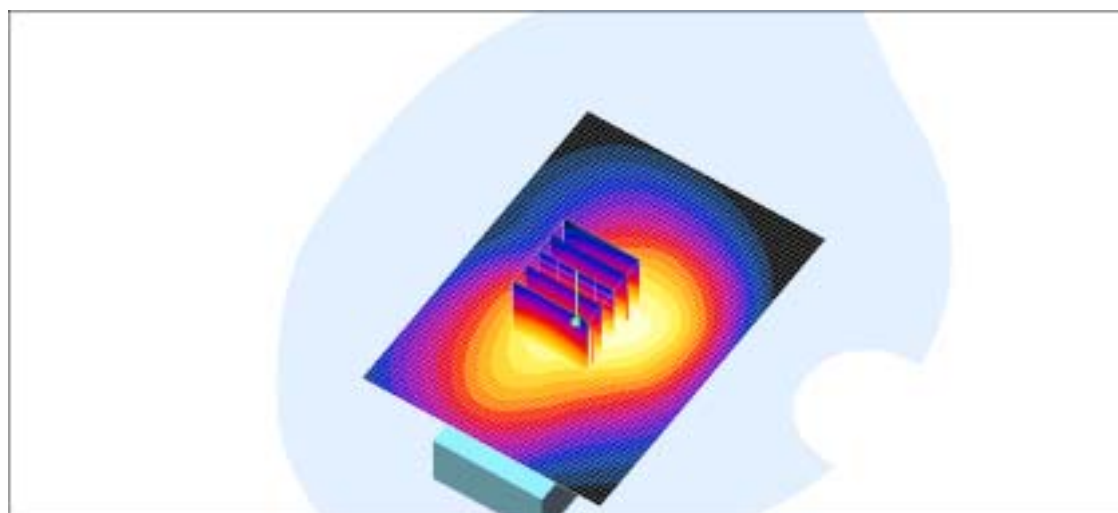
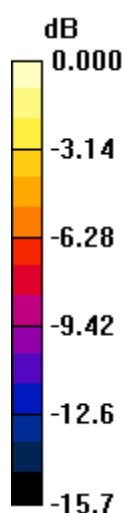
grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.4 V/m; Power Drift = -0.188 dB

Peak SAR (extrapolated) = 1.02 W/kg

SAR(1 g) = 0.653 mW/g

Maximum value of SAR (measured) = 0.703 mW/g



0 dB = 0.703mW/g

SAMSUNG FCC ID : A3LSGHZ230I 1900MHz GPRS1900 Body SAR

DUT: SGH-Z320i(Body); Serial: FC-144-B

Program Name: SGH-Z320i GSM1900 Body (Job No. : FC-144)

Procedure Name: Body, Ch.661, Ant.Intenna, Bat.Standard with BT ON

Procedure Notes: Meas.Tissue Temp(celsius)-21.6; Test Date-17/Oct/2005 [OET Bulletin 65-Supplement C, July 2001]

Communication System: Body GPRS ; Frequency: 1880 MHz;Duty Cycle: 1:4.15

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.53$ mho/m; $\epsilon_r = 51.8$; $\rho = 1000$ 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, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

Body, Ch.661, Ant.Intenna, Bat.Standard with BT ON/Area Scan (51x71x1):

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

Maximum value of SAR (interpolated) = 0.781 mW/g

Body, Ch.661, Ant.Intenna, Bat.Standard with BT ON/Zoom Scan (5x5x7)/Cube 0:

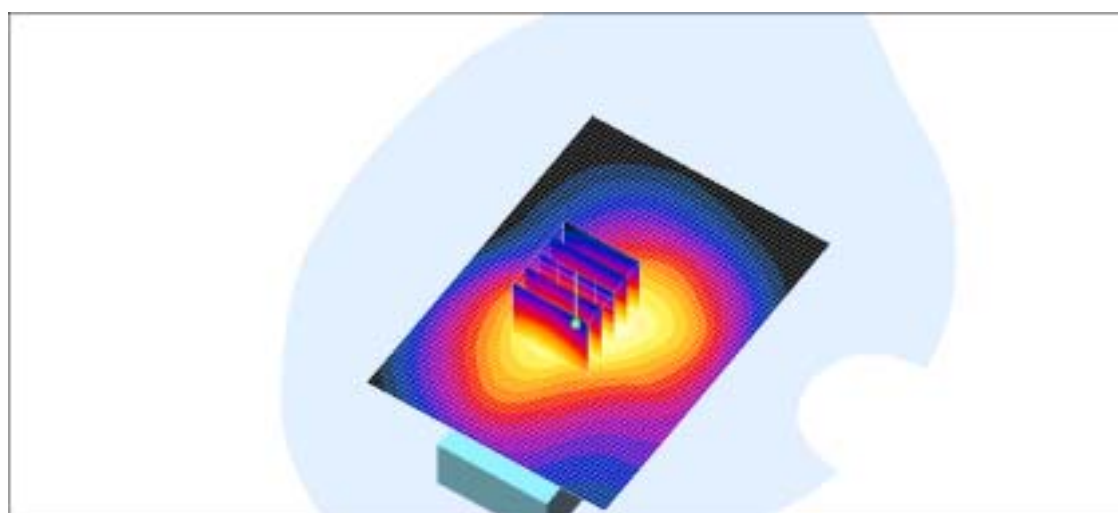
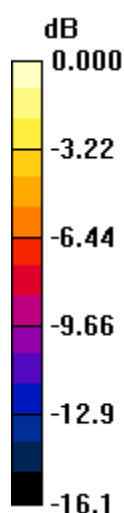
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.1 V/m; Power Drift = -0.062 dB

Peak SAR (extrapolated) = 0.989 W/kg

SAR(1 g) = 0.653 mW/g

Maximum value of SAR (measured) = 0.712 mW/g



0 dB = 0.712mW/g

SAMSUNG FCC ID : A3LSGHZ320I 1900MHz GSM1900 Head SAR

DUT: SGH-Z320i(Down); Serial: FC-144-B

Program Name: SGH-Z320i GSM1900 Right (Slide.Down, Job No. : FC-144)

Procedure Name: Cheek/Touch, Ch.661, Ant.Intenna, Bat.Standard

Procedure Notes: Meas.Tissue Temp(celsius)-21.6; Test Date-17/Oct/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; $\sigma = 1.39$ mho/m; $\epsilon_r = 38.6$; $\rho = 1000$ 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, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

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

Maximum value of SAR (interpolated) = 0.550 mW/g

Cheek/Touch, Ch.661, Ant.Intenna, Bat.Standard/Zoom Scan (5x5x7)/Cube 0:

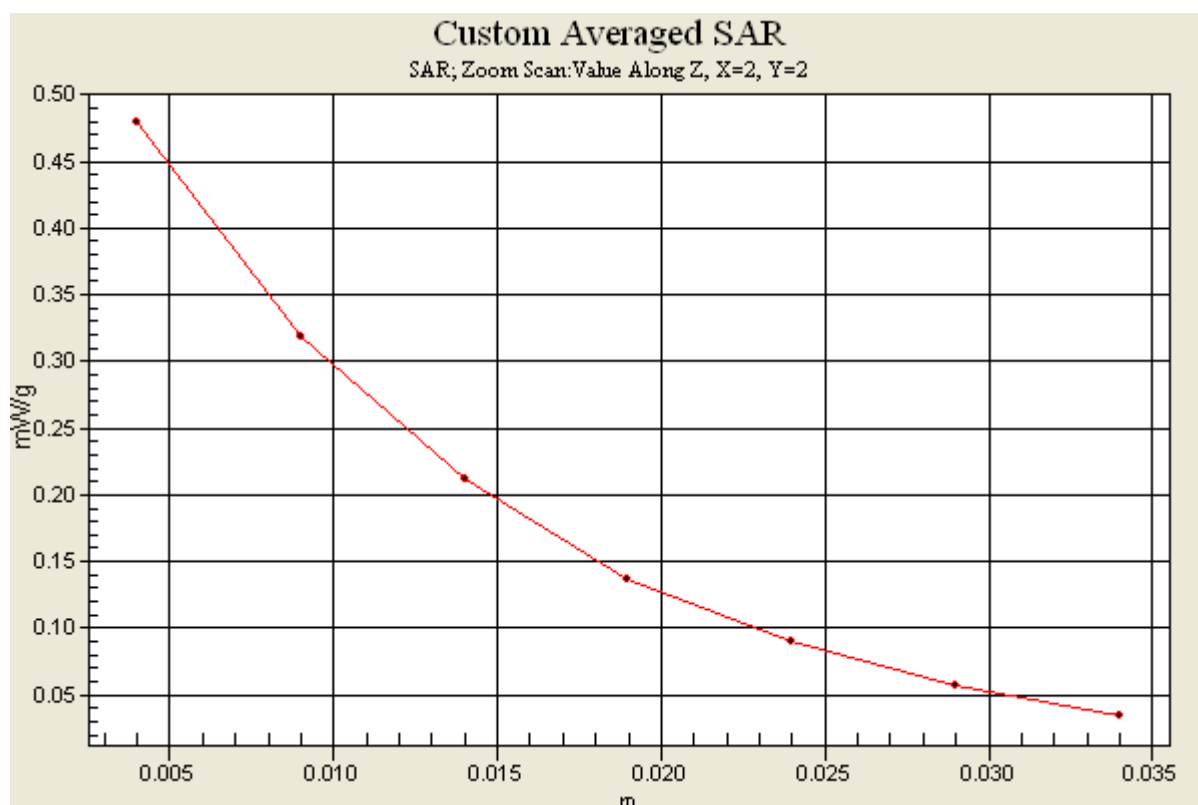
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.5 V/m; Power Drift = -0.010 dB

Peak SAR (extrapolated) = 0.676 W/kg

SAR(1 g) = 0.458 mW/g

Maximum value of SAR (measured) = 0.479 mW/g



SAMSUNG FCC ID : A3LSGHZ320I 1900MHz GSM1900 Head SAR

DUT: SGH-Z320i(Down); Serial: FC-144-B

Program Name: SGH-Z320i GSM1900 Right (Slide.Down, Job No. : FC-144)

Procedure Name: Cheek/Touch, Ch.661, Ant.Intenna, Bat.Standard With BT ON

Procedure Notes: Meas.Tissue Temp(celsius)-21.6; Test Date-17/Oct/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; $\sigma = 1.39$ mho/m; $\epsilon_r = 38.6$; $\rho = 1000$ 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
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Cheek/Touch, Ch.661, Ant.Intenna, Bat.Standard With BT ON/Area Scan

(51x71x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.533 mW/g

Cheek/Touch, Ch.661, Ant.Intenna, Bat.Standard With BT ON/Zoom Scan

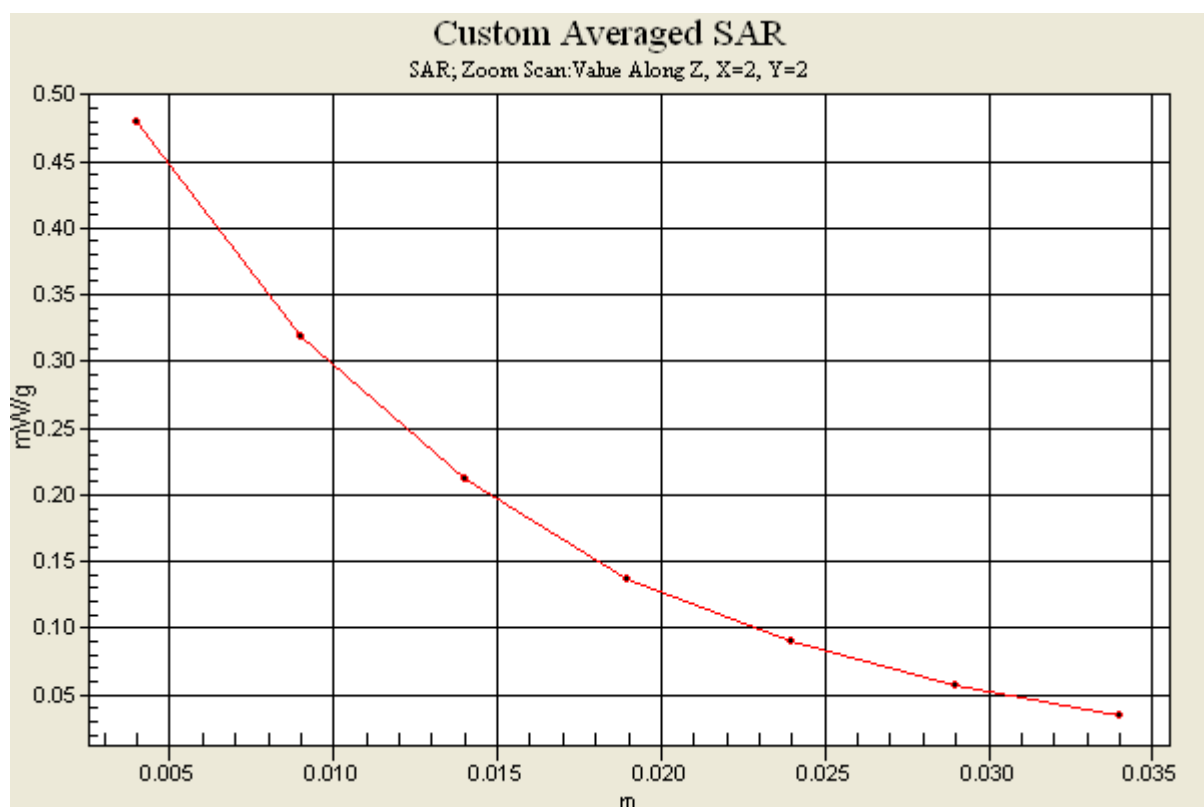
(5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.3 V/m; Power Drift = 0.013 dB

Peak SAR (extrapolated) = 0.663 W/kg

SAR(1 g) = 0.450 mW/g

Maximum value of SAR (measured) = 0.470 mW/g



SAMSUNG FCC ID : A3LSGHZ320I 1900MHz GPRS1900 Body SAR

DUT: SGH-Z320i(Body); Serial: FC-144-B

Program Name: SGH-Z320i GSM1900 Body (Job No. : FC-144)

Procedure Name: Body, Ch.661, Ant.Intenna, Bat.Standard

Procedure Notes: Meas.Tissue Temp(celsius)-21.6; Test Date-17/Oct/2005 [OET Bulletin 65-Supplement C, July 2001]

Communication System: Body GPRS ; Frequency: 1880 MHz;Duty Cycle: 1:4.15

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.53$ mho/m; $\epsilon_r = 51.8$; $\rho = 1000$ 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

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Body, Ch.661, Ant.Intenna, Bat.Standard/Area Scan (51x71x1): Measurement grid:

dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.772 mW/g

Body, Ch.661, Ant.Intenna, Bat.Standard/Zoom Scan (5x5x7)/Cube 0: Measurement

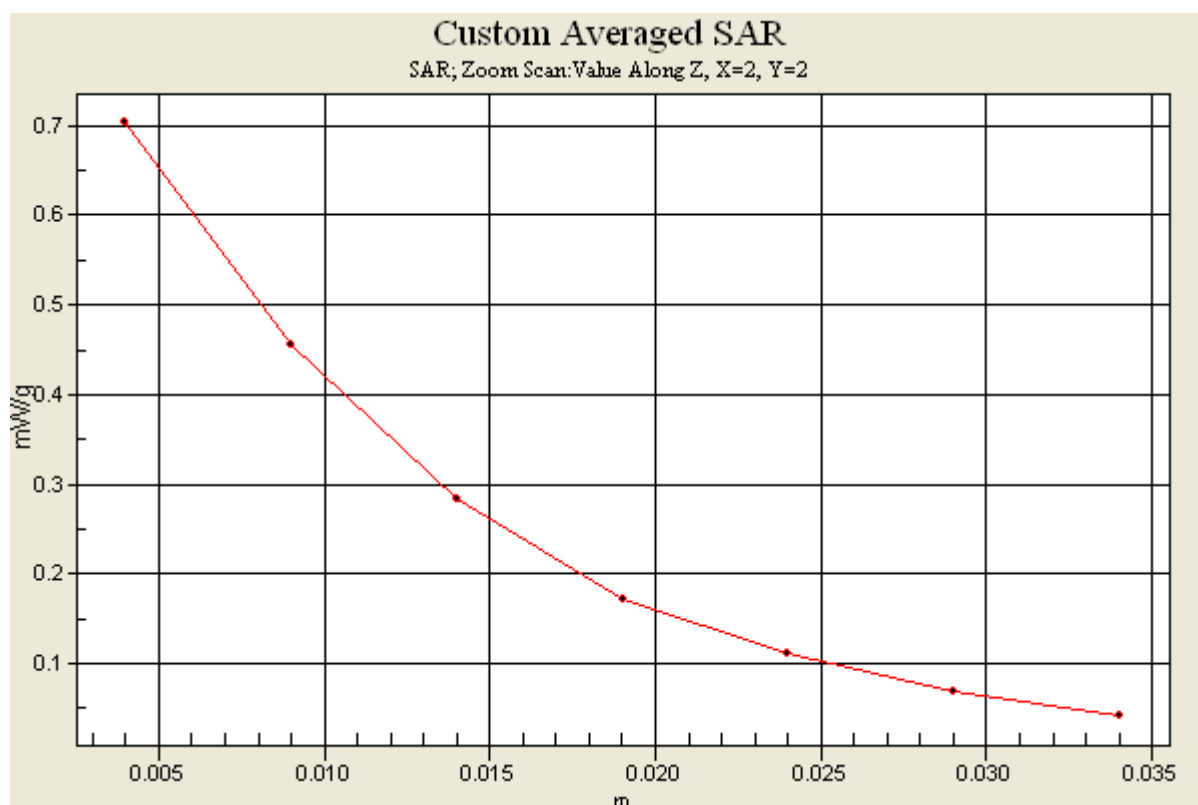
grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.4 V/m; Power Drift = -0.188 dB

Peak SAR (extrapolated) = 1.02 W/kg

SAR(1 g) = 0.653 mW/g

Maximum value of SAR (measured) = 0.703 mW/g



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DUT: SGH-Z320i(Body); Serial: FC-144-B

Program Name: SGH-Z320i GSM1900 Body (Job No. : FC-144)

Procedure Name: Body, Ch.661, Ant.Intenna, Bat.Standard with BT ON

Procedure Notes: Meas.Tissue Temp(celsius)-21.6; Test Date-17/Oct/2005 [OET Bulletin 65-Supplement C, July 2001]

Communication System: Body GPRS ; Frequency: 1880 MHz;Duty Cycle: 1:4.15

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.53$ mho/m; $\epsilon_r = 51.8$; $\rho = 1000$ kg/m³

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- 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

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Body, Ch.661, Ant.Intenna, Bat.Standard with BT ON/Area Scan (51x71x1):

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

Maximum value of SAR (interpolated) = 0.781 mW/g

Body, Ch.661, Ant.Intenna, Bat.Standard with BT ON/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 13.1 V/m; Power Drift = -0.062 dB

Peak SAR (extrapolated) = 0.989 W/kg

SAR(1 g) = 0.653 mW/g

Maximum value of SAR (measured) = 0.712 mW/g

