SAMSUNG FCC ID : A3LSGHE820 -- 1900MHz PCS GSM Head SAR

DUT: SGH-E820; Serial: FB-031-A

Program Name: SGH-E820 GSM1900 Right(Job No.: FB-031)
Procedure Name: Cheek/Touch, Ch0512, Ant.Intenna, Slide down, Bat.Standard
Procedure Notes: Meas.Tissue Temp(celsius)-21.5; Test Date-11/Jun/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; σ = 1.36 mho/m; ε_r = 38.4; ρ = 1000 kg/m^3

Phantom section: Right Section

DASY4 Configuration:

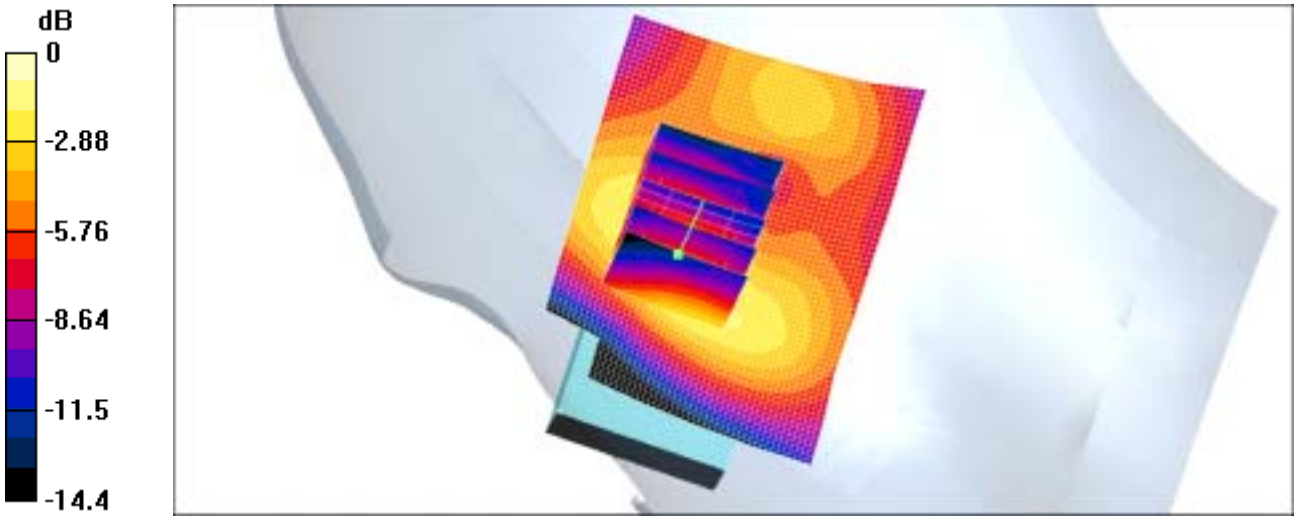
- Probe: ET3DV6 - SN1735; ConvF(5.6, 5.6, 5.6); Calibrated: 2003-11-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn533; Calibrated: 2003-12-16
- Phantom: SAM 1800MHz with CRP; Type: SAM; Serial: TP-1248
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Cheek/Touch, Ch0512, Ant.Intenna, Slide down, Bat.Standard/Area Scan (51x71x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 6.2 V/m; Power Drift = 0.2 dB
Maximum value of SAR (interpolated) = 0.153 mW/g

Cheek/Touch, Ch0512, Ant.Intenna, Slide down, Bat.Standard/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.2 V/m; Power Drift = 0.2 dB
Maximum value of SAR (measured) = 0.154 mW/g
Peak SAR (extrapolated) = 0.201 W/kg
SAR(1 g) = 0.137 mW/g



0 dB = 0.154mW/g

SAMSUNG FCC ID : A3LSGHE820 -- 1900MHz PCS GSM Head SAR

DUT: SGH-E820; Serial: FB-031-A

Program Name: SGH-E820 GSM1900 Right(Job No.: FB-031)
Procedure Name: Ear/Tilt, Ch0661, Ant.Intenna, Slide down, Bat.Standard
Procedure Notes: Meas.Tissue Temp(celsius)-21.5; Test Date-11/Jun/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; σ = 1.36 mho/m; ε_r = 38.4; ρ = 1000 kg/m^3

Phantom section: Right Section

DASY4 Configuration:

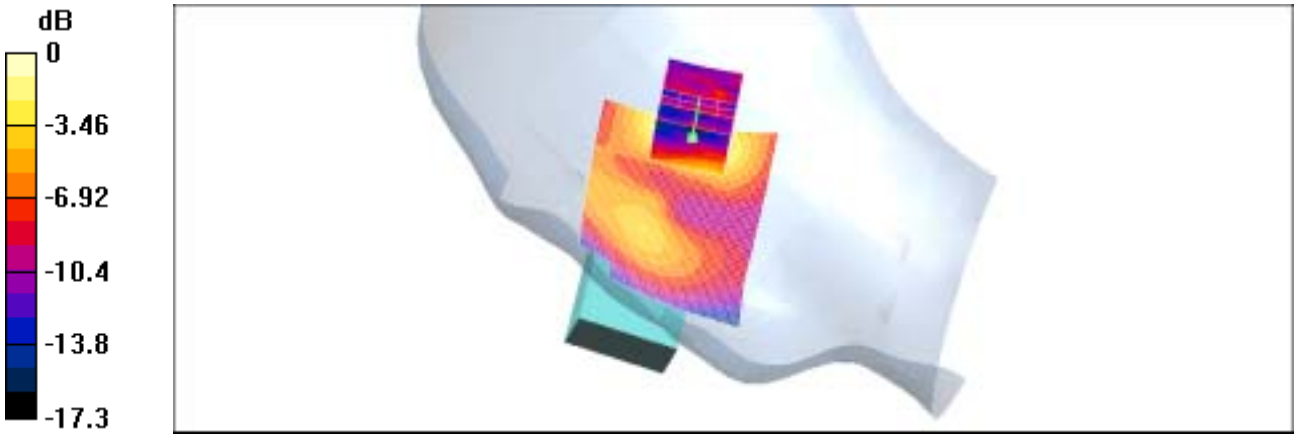
- Probe: ET3DV6 - SN1735; ConvF(5.6, 5.6, 5.6); Calibrated: 2003-11-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn533; Calibrated: 2003-12-16
- Phantom: SAM 1800MHz with CRP; Type: SAM; Serial: TP-1248
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Ear/Tilt, Ch0661, Ant.Intenna, Slide down, Bat.Standard/Area Scan (51x71x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 6.14 V/m; Power Drift = 0.0 dB
Maximum value of SAR (interpolated) = 0.114 mW/g

Ear/Tilt, Ch0661, Ant.Intenna, Slide down, Bat.Standard/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.14 V/m; Power Drift = 0.0 dB
Maximum value of SAR (measured) = 0.099 mW/g
Peak SAR (extrapolated) = 0.160 W/kg
SAR(1 g) = 0.092 mW/g



0 dB = 0.099mW/g

SAMSUNG FCC ID : A3LSGHE820 -- 1900MHz PCS GSM Head SAR

DUT: SGH-E820; Serial: FB-031-A
Program Name: SGH-E820 GSM1900 Left(Job No.: FB-031)
Procedure Name: Cheek/Touch, Ch0512, Ant.Intenna, Slide down, Bat.Standard
Procedure Notes: Meas.Tissue Temp(celsius)-21.5; Test Date-11/Jun/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; σ = 1.36 mho/m; ε_r = 38.4; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1735; ConvF(5.6, 5.6, 5.6); Calibrated: 2003-11-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn533; Calibrated: 2003-12-16
- Phantom: SAM 1800MHz with CRP; Type: SAM; Serial: TP-1248
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Cheek/Touch, Ch0512, Ant.Intenna, Slide down, Bat.Standard/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 7.57 V/m; Power Drift = 0.0005 dB
Maximum value of SAR (interpolated) = 0.176 mW/g

Cheek/Touch, Ch0512, Ant.Intenna, Slide down, Bat.Standard/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.57 V/m; Power Drift = 0.0005 dB
Maximum value of SAR (measured) = 0.170 mW/g
Peak SAR (extrapolated) = 0.215 W/kg
SAR(1 g) = 0.158 mW/g

0 dB = 0.170mW/g

SAMSUNG FCC ID : A3LSGHE820 -- 1900MHz PCS GSM Head SAR

DUT: SGH-E820; Serial: FB-031-A

Program Name: SGH-E820 GSM1900 Left(Job No.: FB-031)
Procedure Name: Ear/Tilt, Ch0661, Ant.Intenna, Slide down, Bat.Standard
Procedure Notes: Meas.Tissue Temp(celsius)-21.5; Test Date-11/Jun/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; σ = 1.36 mho/m; ε_r = 38.4; ρ = 1000 kg/m^3

Phantom section: Left Section

DASY4 Configuration:

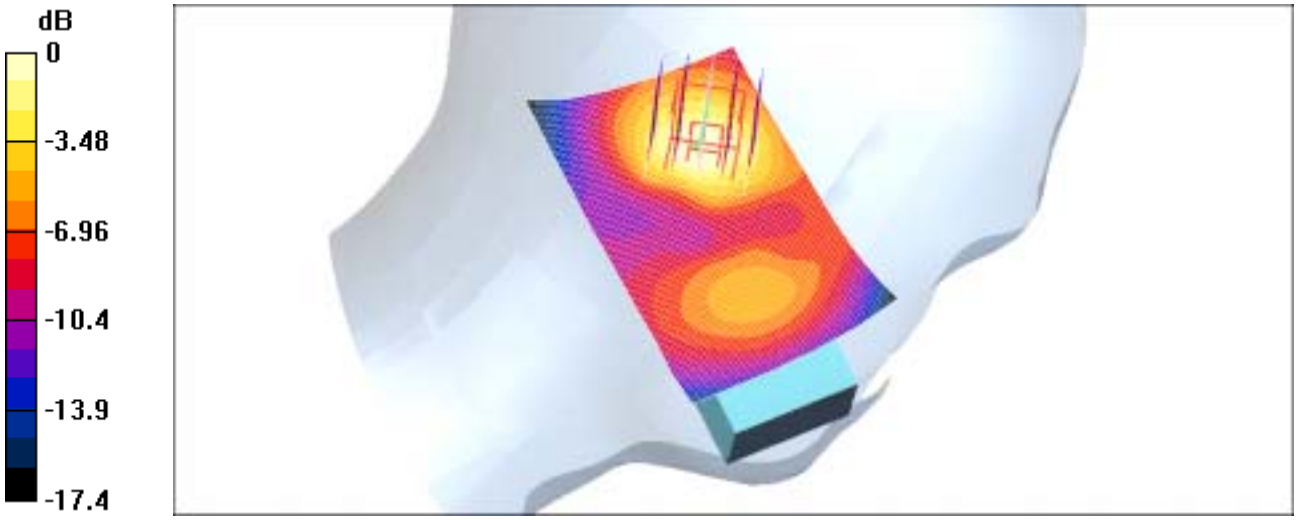
- Probe: ET3DV6 - SN1735; ConvF(5.6, 5.6, 5.6); Calibrated: 2003-11-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn533; Calibrated: 2003-12-16
- Phantom: SAM 1800MHz with CRP; Type: SAM; Serial: TP-1248
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Ear/Tilt, Ch0661, Ant.Intenna, Slide down, Bat.Standard/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 7.73 V/m; Power Drift = 0.0 dB
Maximum value of SAR (interpolated) = 0.140 mW/g

Ear/Tilt, Ch0661, Ant.Intenna, Slide down, Bat.Standard/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.73 V/m; Power Drift = 0.0 dB
Maximum value of SAR (measured) = 0.135 mW/g
Peak SAR (extrapolated) = 0.187 W/kg
SAR(1 g) = 0.121 mW/g



0 dB = 0.135mW/g

SAMSUNG FCC ID : A3LSGHE820 -- 1900MHz PCS GSM Body SAR

DUT: SGH-E820; Serial: FB-031-A

Program Name: SGH-E820 GSM1900 Body(Job No.: FB-031)
Procedure Name: Body, Ch0512, Ant.Intenna, Slide down, Bat.Standard
Procedure Notes: Meas.Tissue Temp(celsius)-21.8; Test Date-12/Jun/2004 [OET Bulletin 65-Supplement C, July 2001]

Communication System: GSM 1900; Frequency: 1900 MHz;Duty Cycle: 1:8.3

Medium parameters used: f = 1900 MHz; σ = 1.56 mho/m; ε_r = 51.1; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY4 Configuration:

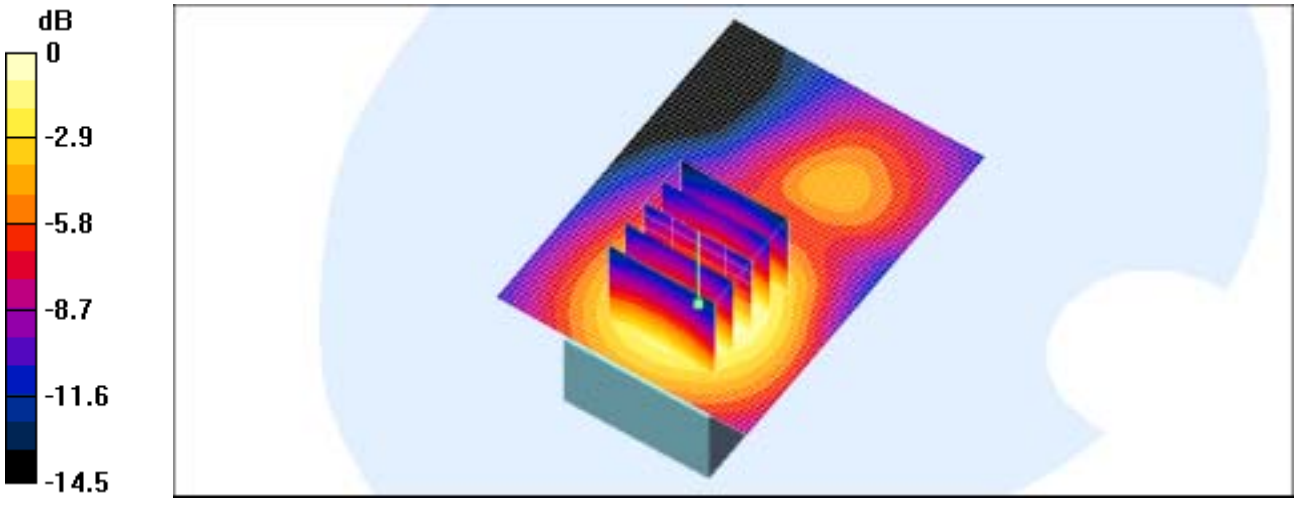
- Probe: ET3DV6 - SN1735; ConvF(4.7, 4.7, 4.7); Calibrated: 2003-11-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn533; Calibrated: 2003-12-16
- Phantom: SAM 1800MHz with CRP; Type: SAM; Serial: TP-1248
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Body, Ch0512, Ant.Intenna, Slide down, Bat.Standard/Area Scan (51x71x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 10.2 V/m; Power Drift = -0.1 dB
Maximum value of SAR (interpolated) = 0.501 mW/g

Body, Ch0512, Ant.Intenna, Slide down, Bat.Standard/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.2 V/m; Power Drift = -0.1 dB
Maximum value of SAR (measured) = 0.486 mW/g
Peak SAR (extrapolated) = 0.644 W/kg
SAR(1 g) = 0.453 mW/g



0 dB = 0.486mW/g

SAMSUNG FCC ID : A3LSGHE820 -- 1900MHz GPRS Body SAR

DUT: SGH-E820; Serial: FB-031-A

Program Name: SGH-E820 GPRS Body(Job No.: FB-031)
Procedure Name: Body, Ch0512, Ant.Intenna, Slide down, Bat.Standard
Procedure Notes: Meas.Tissue Temp(celsius)-21.8; Test Date-12/Jun/2004 [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; σ = 1.56 mho/m; ε_r = 51.1; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:

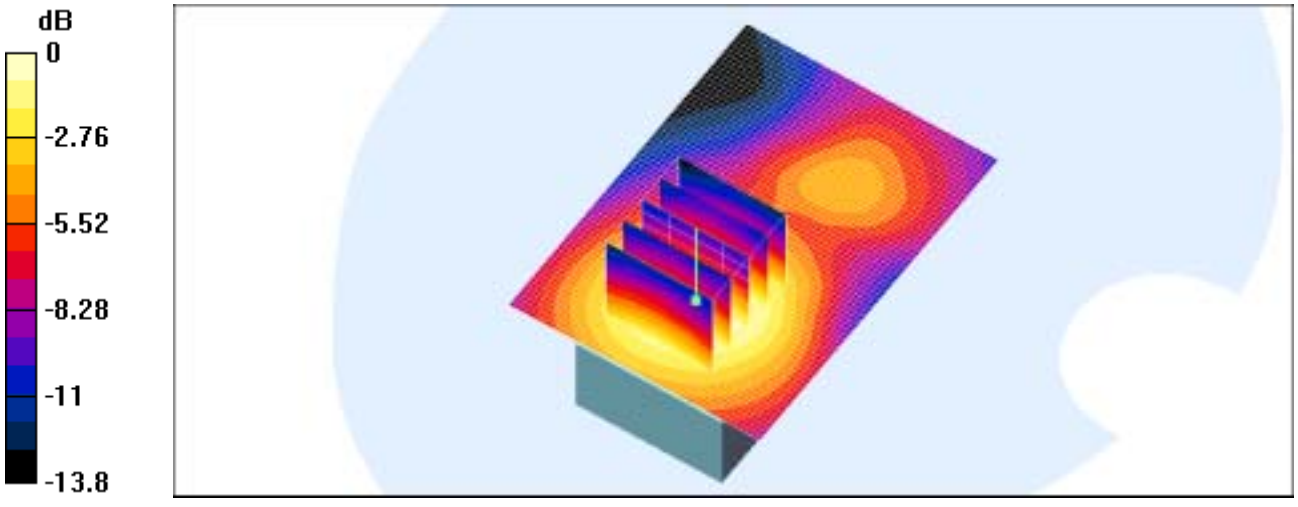
- Probe: ET3DV6 - SN1735; ConvF(4.7, 4.7, 4.7); Calibrated: 2003-11-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn533; Calibrated: 2003-12-16
- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1248
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Body, Ch0512, Ant.Intenna, Slide down, Bat.Standard/Area Scan (51x71x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 12.7 V/m; Power Drift = 0.0 dB
Maximum value of SAR (interpolated) = 0.651 mW/g

Body, Ch0512, Ant.Intenna, Slide down, Bat.Standard/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.7 V/m; Power Drift = 0.0 dB
Maximum value of SAR (measured) = 0.626 mW/g
Peak SAR (extrapolated) = 0.818 W/kg
SAR(1 g) = 0.580 mW/g



0 dB = 0.626mW/g

SAMSUNG FCC ID : A3LSGHE820 -- 1900MHz PCS GSM Head SAR

DUT: SGH-E820; Serial: FB-031-A

Program Name: SGH-E820 GSM1900 Left(Job No.: FB-031)
Procedure Name: Cheek/Touch, Ch0512, Ant.Intenna, Slide down, Bat.Standard
Procedure Notes: Meas.Tissue Temp(celsius)-21.5; Test Date-11/Jun/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; σ = 1.36 mho/m; ε_r = 38.4; ρ = 1000 kg/m^3

Phantom section: Left Section

DASY4 Configuration:

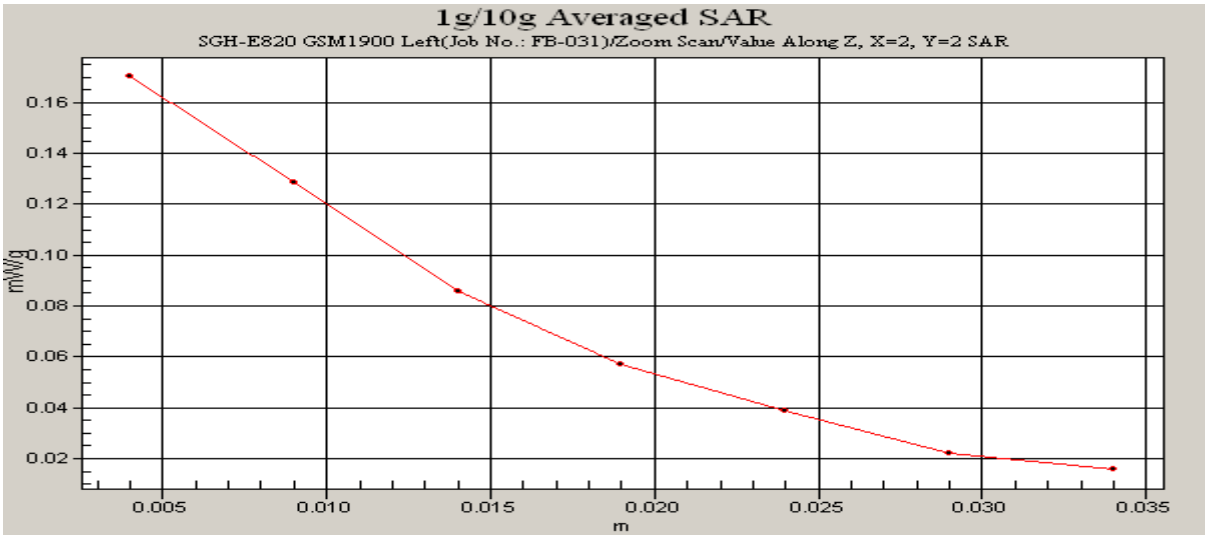
- Probe: ET3DV6 - SN1735; ConvF(5.6, 5.6, 5.6); Calibrated: 2003-11-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn533; Calibrated: 2003-12-16
- Phantom: SAM 1800MHz with CRP; Type: SAM; Serial: TP-1248
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Cheek/Touch, Ch0512, Ant.Intenna, Slide down, Bat.Standard/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 7.57 V/m; Power Drift = 0.0005 dB
Maximum value of SAR (interpolated) = 0.176 mW/g

Cheek/Touch, Ch0512, Ant.Intenna, Slide down, Bat.Standard/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.57 V/m; Power Drift = 0.0005 dB
Maximum value of SAR (measured) = 0.170 mW/g
Peak SAR (extrapolated) = 0.215 W/kg
SAR(1 g) = 0.158 mW/g



SAMSUNG FCC ID : A3LSGHE820 -- 1900MHz GPRS Body SAR

DUT: SGH-E820; Serial: FB-031-A

Program Name: SGH-E820 GPRS Body(Job No.: FB-031)
Procedure Name: Body, Ch0512, Ant.Intenna, Slide down, Bat.Standard
Procedure Notes: Meas.Tissue Temp(celsius)-21.8; Test Date-12/Jun/2004 [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; σ = 1.56 mho/m; ε_r = 51.1; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1735; ConvF(4.7, 4.7, 4.7); Calibrated: 2003-11-20
- 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, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Body, Ch0512, Ant.Intenna, Slide down, Bat.Standard/Area Scan (51x71x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 12.7 V/m; Power Drift = 0.0 dB
Maximum value of SAR (interpolated) = 0.651 mW/g

Body, Ch0512, Ant.Intenna, Slide down, Bat.Standard/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.7 V/m; Power Drift = 0.0 dB
Maximum value of SAR (measured) = 0.626 mW/g
Peak SAR (extrapolated) = 0.818 W/kg
SAR(1 g) = 0.580 mW/g