

SAMSUNG FCC ID : A3LSGHX540 GSM1900 HEAD SAR

DUT: SGH-X540; Serial: FD-210-A

Program Name: SGH-X540 GSM1900 Right (Job No. : FD-210)

Procedure Name: Cheek/Touch, Ch.810, Ant.Intenna, Bat.Standard

Meas. Ambient Temp(celsius)-22.1, Tissue Temp(celsius)-21.8 ;Test Date-24/Oct/2006

Communication System: GSM 1900; Frequency: 1909.8 MHz;Duty Cycle: 1:8.3

Medium parameters used: $f = 1909.8$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 39.4$; $\rho = 1000$ kg/m³ ;

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV2 - SN3017; ConvF(5.06, 5.06, 5.06); Calibrated: 2006-09-20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2006-07-17
- Phantom: PHANTOM #1; Type: SAM; Serial: TP-1143
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Cheek/Touch, Ch.810, Ant.Intenna, Bat.Standard/Area Scan (51x71x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.793 mW/g

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

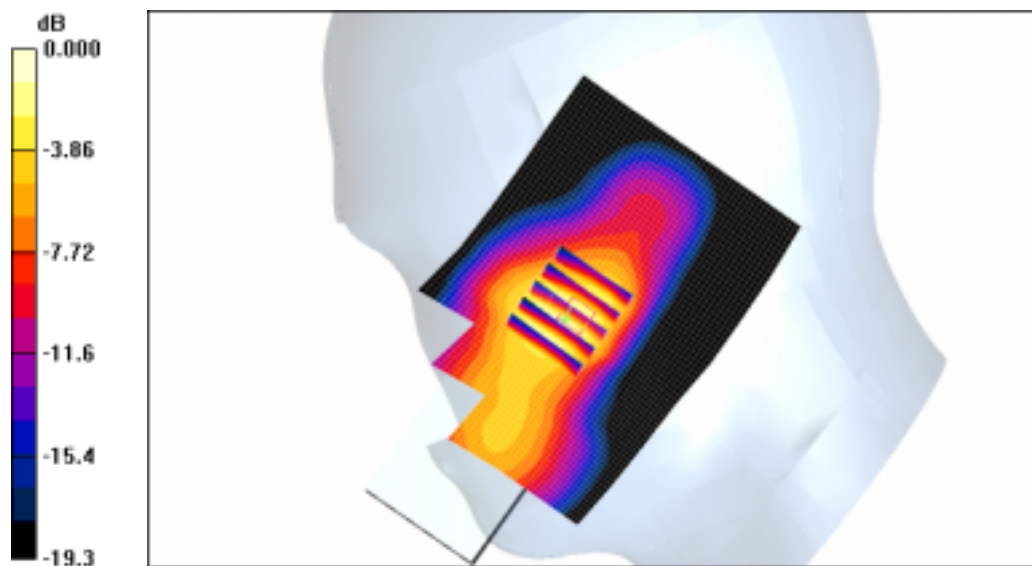
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 26.6 V/m; Power Drift = -0.023 dB

Peak SAR (extrapolated) = 1.57 W/kg

SAR(1 g) = 0.901 mW/g

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



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DUT: SGH-X540; Serial: FD-210-A

Program Name: SGH-X540 GSM1900 Right (Job No. : FD-210)

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

Meas. Ambient Temp(celsius)-22.1, Tissue Temp(celsius)-21.8 ;Test Date-24/Oct/2006

Communication System: GSM 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 39.4$; $\rho = 1000$ kg/m³ ;

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV2 - SN3017; ConvF(5.06, 5.06, 5.06); Calibrated: 2006-09-20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2006-07-17
- Phantom: PHANTOM #1; Type: SAM; Serial: TP-1143
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

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

Maximum value of SAR (interpolated) = 0.234 mW/g

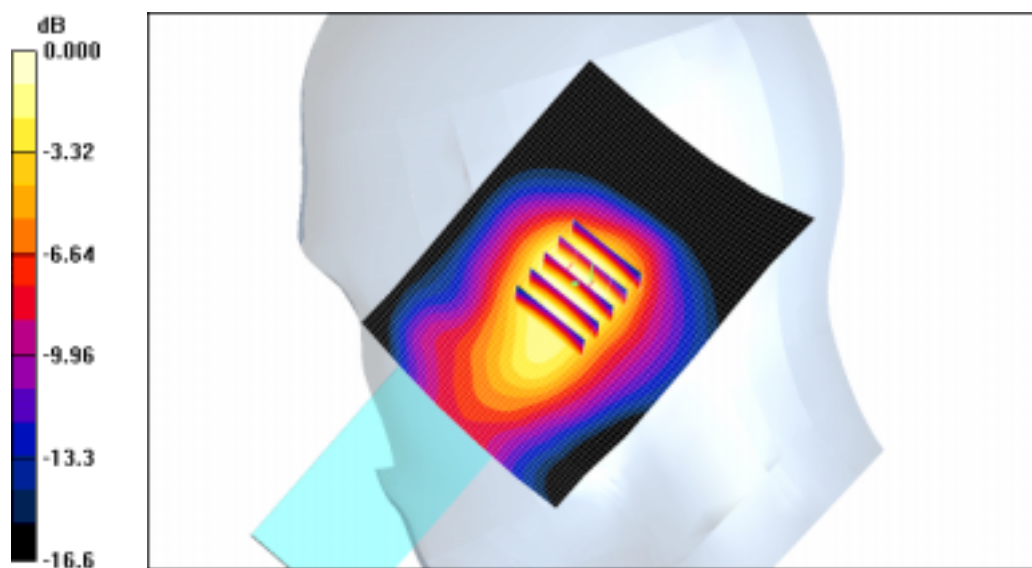
Ear/Tilt, Ch.661, Ant.Intenna, Bat.Standard/Zoom Scan 2 (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.73 V/m; Power Drift = -0.195 dB

Peak SAR (extrapolated) = 0.263 W/kg

SAR(1 g) = 0.170 mW/g

Maximum value of SAR (measured) = 0.181 mW/g



0 dB = 0.181mW/g

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DUT: SGH-X540; Serial: FD-210-A

Program Name: SGH-X540 GSM1900 Left(Job No. : FD-210)

Procedure Name: Cheek/Touch, Ch.810, Ant.Intenna, Bat.Standard With BT ON

Meas. Ambient Temp(celsius)-22.1, Tissue Temp(celsius)-21.8 ;Test Date-24/Oct/2006

Communication System: GSM 1900; Frequency: 1909.8 MHz;Duty Cycle: 1:8.3

Medium parameters used: $f = 1909.8$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 39.4$; $\rho = 1000$ kg/m³ ;

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV2 - SN3017; ConvF(5.06, 5.06, 5.06); Calibrated: 2006-09-20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2006-07-17
- Phantom: PHANTOM #1; Type: SAM; Serial: TP-1143
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Cheek/Touch, Ch.810, 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

Cheek/Touch, Ch.810, Ant.Intenna, Bat.Standard With BT ON/Zoom Scan (5x5x7)/Cube

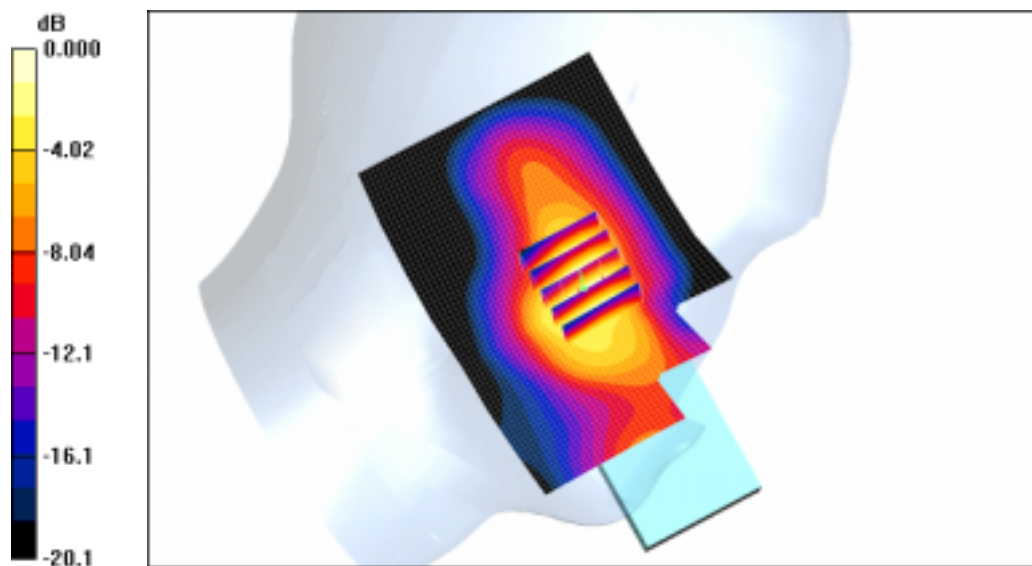
0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.5 V/m; Power Drift = -0.056 dB

Peak SAR (extrapolated) = 1.72 W/kg

SAR(1 g) = 0.997 mW/g

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



0 dB = 1.10mW/g

SAMSUNG FCC ID : A3LSGHX540 GSM1900 HEAD SAR

DUT: SGH-X540; Serial: FD-210-A

Program Name: SGH-X540 GSM1900 Left(Job No. : FD-210)

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

Meas. Ambient Temp(celsius)-22.1, Tissue Temp(celsius)-21.8 ;Test Date-24/Oct/2006

Communication System: GSM 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 39.4$; $\rho = 1000$ kg/m³ ;

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV2 - SN3017; ConvF(5.06, 5.06, 5.06); Calibrated: 2006-09-20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2006-07-17
- Phantom: PHANTOM #1; Type: SAM; Serial: TP-1143
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

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

Maximum value of SAR (interpolated) = 0.249 mW/g

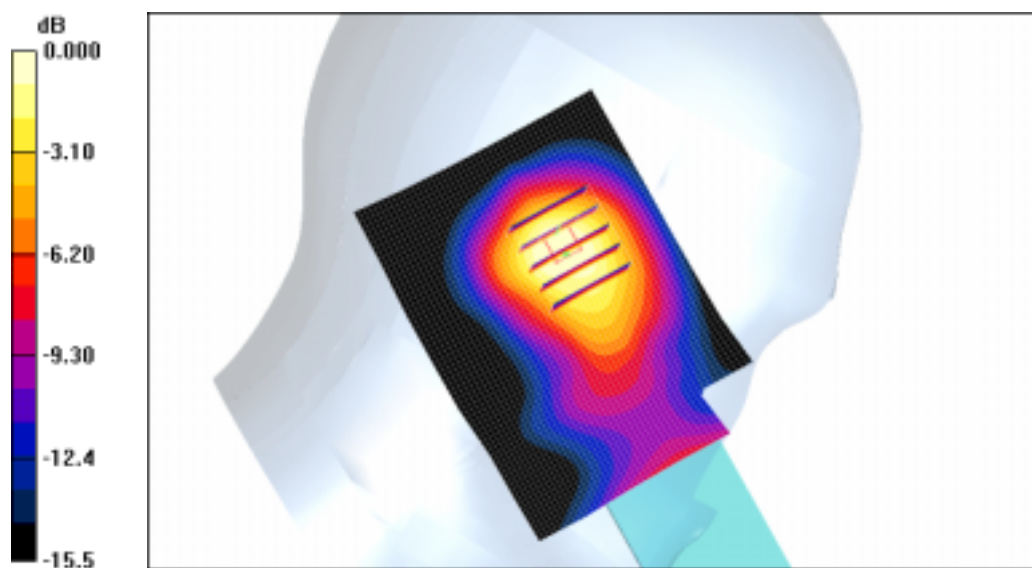
Ear/Tilt, Ch.661, Ant.Intenna, Bat.Standard/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.31 V/m; Power Drift = -0.072 dB

Peak SAR (extrapolated) = 0.316 W/kg

SAR(1 g) = 0.201 mW/g

Maximum value of SAR (measured) = 0.214 mW/g

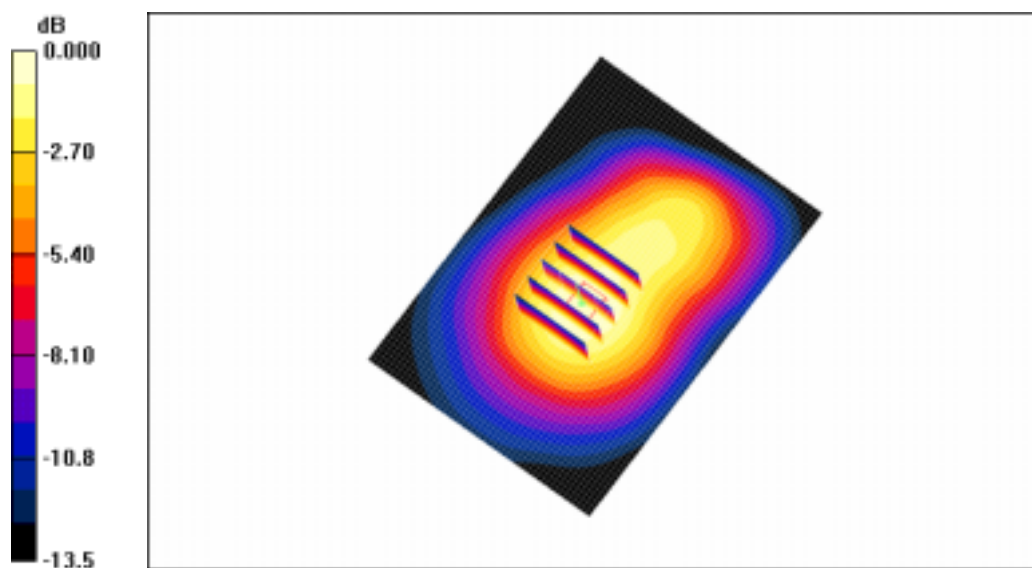


0 dB = 0.214mW/g

SAMSUNG FCC ID : A3LSGHX540 GPRS1900 Body SAR
DUT: SGH-X540; Serial: FD-210-A
Program Name: SGH-X540 GSM1900 Body (Job No. : FD-210)
Procedure Name: Body, Ch.810, Ant.Intenna, Bat.Standard With BT ON
Meas. Ambient Temp(celsius)-22.2, Tissue Temp(celsius)-21.7; Test Date-24/Oct/2006
Communication System: Body GPRS ; Frequency: 1909.8 MHz;Duty Cycle: 1:4.15
Medium parameters used: $f = 1909.8$ MHz; $\sigma = 1.49$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ES3DV2 - SN3017; ConvF(4.57, 4.57, 4.57); Calibrated: 2006-09-20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2006-07-17
- Phantom: PHANTOM #2; Type: SAM; Serial: TP-1141
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body, Ch.810, Ant.Intenna, Bat.Standard With BT ON/Area Scan (51x71x1):
Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.443 mW/g

Body, Ch.810, Ant.Intenna, Bat.Standard With BT ON/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 13.8 V/m; Power Drift = -0.085 dB
Peak SAR (extrapolated) = 0.568 W/kg
SAR(1 g) = 0.387 mW/g
Maximum value of SAR (measured) = 0.416 mW/g



0 dB = 0.416mW/g

SAMSUNG FCC ID : A3LSGHX540 GSM1900 HEAD SAR

DUT: SGH-X540; Serial: FD-210-A

Program Name: SGH-X540 GSM1900 Left(Job No. : FD-210)

Procedure Name: Cheek/Touch, Ch.810, Ant.Intenna, Bat.Standard With BT ON

Meas. Ambient Temp(celsius)-22.1, Tissue Temp(celsius)-21.8; Test Date-24/Oct/2006

Communication System: GSM 1900; Frequency: 1909.8 MHz;Duty Cycle: 1:8.3

Medium parameters used: $f = 1909.8$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 39.4$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV2 - SN3017; ConvF(5.06, 5.06, 5.06); Calibrated: 2006-09-20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2006-07-17
- Phantom: PHANTOM #1; Type: SAM; Serial: TP-1143
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Cheek/Touch, Ch.810, 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

Cheek/Touch, Ch.810, Ant.Intenna, Bat.Standard With BT ON/Zoom Scan (5x5x7)/Cube

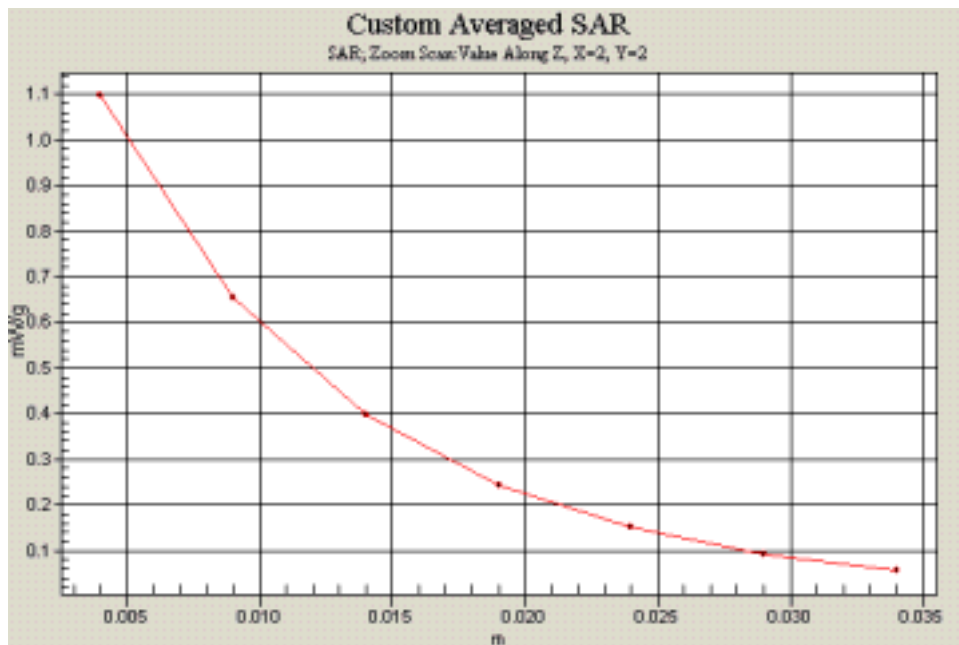
0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.5 V/m; Power Drift = -0.056 dB

Peak SAR (extrapolated) = 1.72 W/kg

SAR(1 g) = 0.997 mW/g

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



SAMSUNG FCC ID : A3LSGHX540 GPRS1900 Body SAR

DUT: SGH-X540; Serial: FD-210-A

Program Name: SGH-X540 GSM1900 Body (Job No. : FD-210)

Procedure Name: Body, Ch.810, Ant.Intenna, Bat.Standard With BT ON

Meas. Ambient Temp(celsius)-22.2, Tissue Temp(celsius)-21.7; Test Date-24/Oct/2006

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

Medium parameters used: $f = 1909.8$ MHz; $\sigma = 1.49$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV2 - SN3017; ConvF(4.57, 4.57, 4.57); Calibrated: 2006-09-20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2006-07-17
- Phantom: PHANTOM #2; Type: SAM; Serial: TP-1141
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body, Ch.810, Ant.Intenna, Bat.Standard With BT ON/Area Scan (51x71x1):

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

Maximum value of SAR (interpolated) = 0.443 mW/g

Body, Ch.810, Ant.Intenna, Bat.Standard With BT ON/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 13.8 V/m; Power Drift = -0.085 dB

Peak SAR (extrapolated) = 0.568 W/kg

SAR(1 g) = 0.387 mW/g

Maximum value of SAR (measured) = 0.416 mW/g

