

SAMSUNG FCC ID : A3LSPHN345 -- 1900MHz PCS CDMA Head SAR

DUT: SPH-N345; Serial: FB-061-B

Program Name: SPH-N345 PCS Right (Job No.: FB-061)

Procedure Name: Cheek/Touch, Ch.1175, Ant.Intenna, Bat.Standard

Procedure Notes: Meas.Tissue Temp(celsius)-21.6;Test Date-08/Oct/2004[OET Bulletin 65-Supplement C, July 2001]

Communication System: PCS; Frequency: 1908.75 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 1908.75 \text{ MHz}$; $\sigma = 1.39 \text{ mho/m}$; $\epsilon_r = 38.5$; $\rho = 1000 \text{ kg/m}^3$

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 Sn486; Calibrated: 2004-08-23
- 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.1175, Ant.Intenna, Bat.Standard/Area Scan (51x71x1):

Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$

Maximum value of SAR (interpolated) = 1.56 mW/g

Cheek/Touch, Ch.1175, Ant.Intenna, Bat.Standard/Zoom Scan

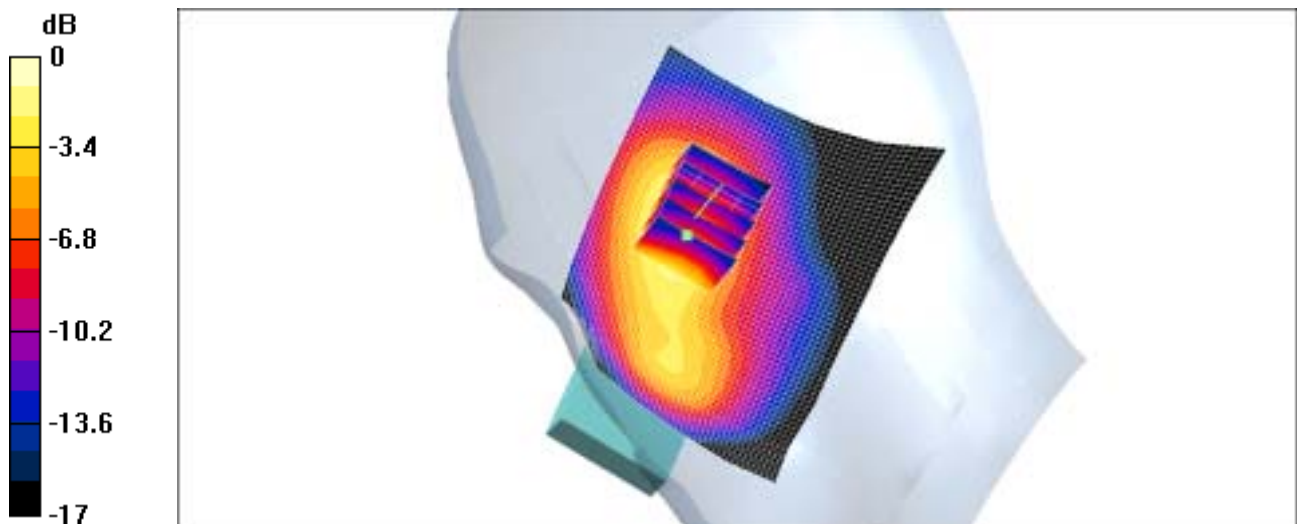
(5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 26.9 V/m ; Power Drift = 0.1 dB

Peak SAR (extrapolated) = 2.27 W/kg

SAR(1 g) = 1.45 mW/g

Maximum value of SAR (measured) = 1.53 mW/g



0 dB = 1.53 mW/g

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DUT: SPH-N345; Serial: FB-061-B

Program Name: SPH-N345 PCS Right (Job No.: FB-061)

Procedure Name: Ear/Tilt, Ch.1175, Ant.Intenna, Bat.Standard

Procedure Notes: Meas.Tissue Temp(celsius)-21.6;Test Date-08/Oct/2004[OET Bulletin 65-Supplement C, July 2001]

Communication System: PCS; Frequency: 1908.75 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 1908.75 \text{ MHz}$; $\sigma = 1.39 \text{ mho/m}$; $\epsilon_r = 38.5$; $\rho = 1000 \text{ kg/m}^3$

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 Sn486; Calibrated: 2004-08-23
- 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.1175, Ant.Intenna, Bat.Standard/Area Scan (51x71x1):

Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$

Maximum value of SAR (interpolated) = 1.48 mW/g

Ear/Tilt, Ch.1175, Ant.Intenna, Bat.Standard/Zoom Scan (5x5x7)/Cube 0:

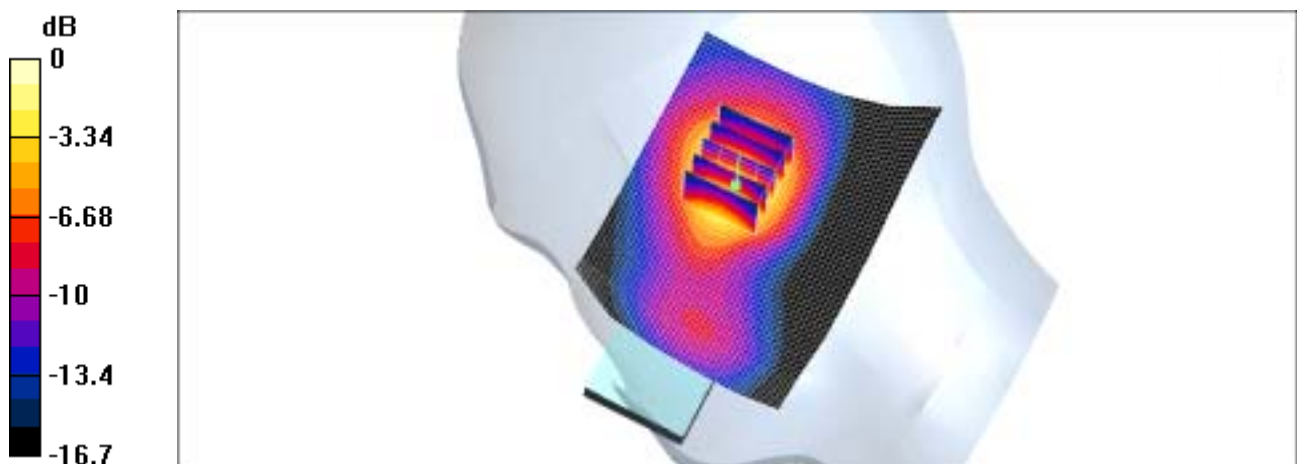
Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 32.3 V/m ; Power Drift = -0.1 dB

Peak SAR (extrapolated) = 1.98 W/kg

SAR(1 g) = 1.32 mW/g

Maximum value of SAR (measured) = 1.43 mW/g



0 dB = 1.43mW/g

SAMSUNG FCC ID : A3LSPHN345 -- 1900MHz PCS CDMA Head SAR

DUT: SPH-N345; Serial: FB-061-B

Program Name: SPH-N345 PCS Left (Job No.: FB-061)

Procedure Name: Cheek/Touch, Ch.0600, Ant.Intenna, Bat.Standard

Procedure Notes: Meas.Tissue Temp(celsius)-21.6;Test Date-08/Oct/2004[OET Bulletin 65-Supplement C, July 2001]

Communication System: PCS; Frequency: 1880 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 38.5$; $\rho = 1000$ kg/m³

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 Sn486; Calibrated: 2004-08-23
- 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.0600, Ant.Intenna, Bat.Standard/Area Scan (51x71x1):

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

Maximum value of SAR (interpolated) = 1.32 mW/g

Cheek/Touch, Ch.0600, Ant.Intenna, Bat.Standard/Zoom Scan

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

Reference Value = 27.2 V/m; Power Drift = -0.2 dB

Peak SAR (extrapolated) = 1.62 W/kg

SAR(1 g) = 1.14 mW/g

Maximum value of SAR (measured) = 1.26 mW/g

Cheek/Touch, Ch.0600, Ant.Intenna, Bat.Standard/Zoom Scan

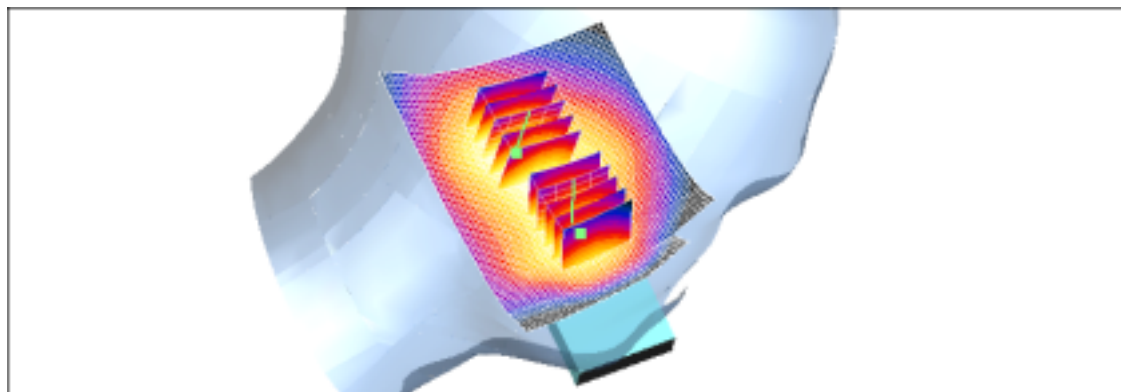
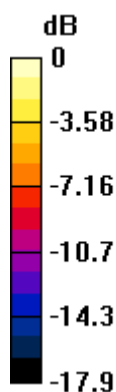
(5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.2 V/m; Power Drift = -0.2 dB

Peak SAR (extrapolated) = 1.22 W/kg

SAR(1 g) = 0.827 mW/g

Maximum value of SAR (measured) = 0.910 mW/g



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DUT: SPH-N345; Serial: FB-061-B

Program Name: SPH-N345 PCS Left (Job No.: FB-061)

Procedure Name: Ear/Tilt, Ch.0600, Ant.Intenna, Bat.Standard

Procedure Notes: Meas.Tissue Temp(celsius)-21.6;Test Date-08/Oct/2004[OET Bulletin 65-Supplement C, July 2001]

Communication System: PCS; Frequency: 1880 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.39 \text{ mho/m}$; $\epsilon_r = 38.5$; $\rho = 1000 \text{ kg/m}^3$

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 Sn486; Calibrated: 2004-08-23
- 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.0600, Ant.Intenna, Bat.Standard/Area Scan (51x71x1):

Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$

Maximum value of SAR (interpolated) = 1.19 mW/g

Ear/Tilt, Ch.0600, Ant.Intenna, Bat.Standard/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 26.6 V/m ; Power Drift = 0.1 dB

Peak SAR (extrapolated) = 1.64 W/kg

SAR(1 g) = 1.15 mW/g

Maximum value of SAR (measured) = 1.24 mW/g

Ear/Tilt, Ch.0600, Ant.Intenna, Bat.Standard/Zoom Scan (5x5x7)/Cube 1:

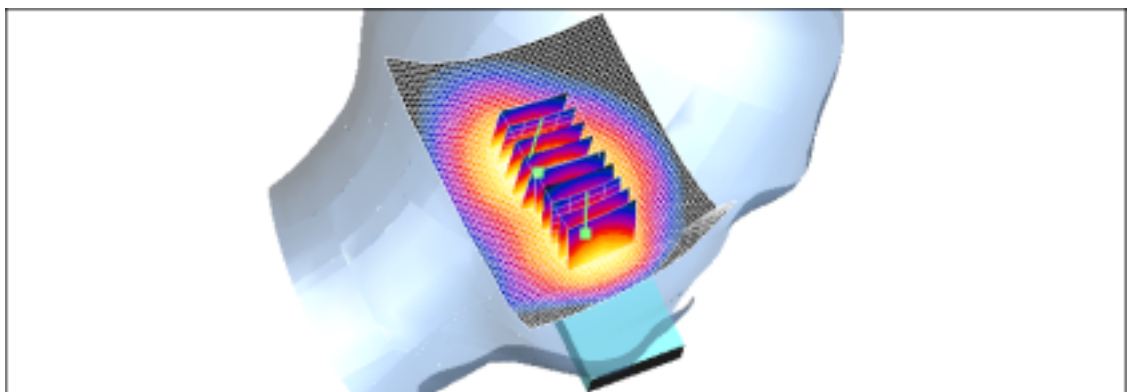
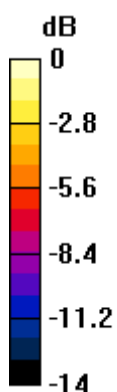
Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 26.6 V/m ; Power Drift = 0.1 dB

Peak SAR (extrapolated) = 1.12 W/kg

SAR(1 g) = 0.817 mW/g

Maximum value of SAR (measured) = 0.885 mW/g



SAMSUNG FCC ID : A3LSPHN345 -- 1900MHz PCS CDMA Head SAR

DUT: SPH-N345(Body); Serial: FB-061-B

Program Name: SPH-N345 PCS Body (Job No.: FB-061)

Procedure Name: Body, Ch.1175, Ant.Intenna, Bat.Standard

Procedure Notes: Meas.Tissue Temp(celsius)-21.1;Test Date-08/Oct/2004[OET Bulletin 65-Supplement C, July 2001]

Communication System: PCS; Frequency: 1908.75 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 1908.75$ MHz; $\sigma = 1.57$ mho/m; $\epsilon_r = 51.3$; $\rho = 1000$ kg/m³

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 Sn486; Calibrated: 2004-08-23
- 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.1175, Ant.Intenna, Bat.Standard/Area Scan (51x81x1):

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

Maximum value of SAR (interpolated) = 1.22 mW/g

Body, Ch.1175, Ant.Intenna, Bat.Standard/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 24.1 V/m; Power Drift = -0.2 dB

Peak SAR (extrapolated) = 1.57 W/kg

SAR(1 g) = 1.03 mW/g

Maximum value of SAR (measured) = 1.11 mW/g

Body, Ch.1175, Ant.Intenna, Bat.Standard/Zoom Scan (5x5x7)/Cube 1:

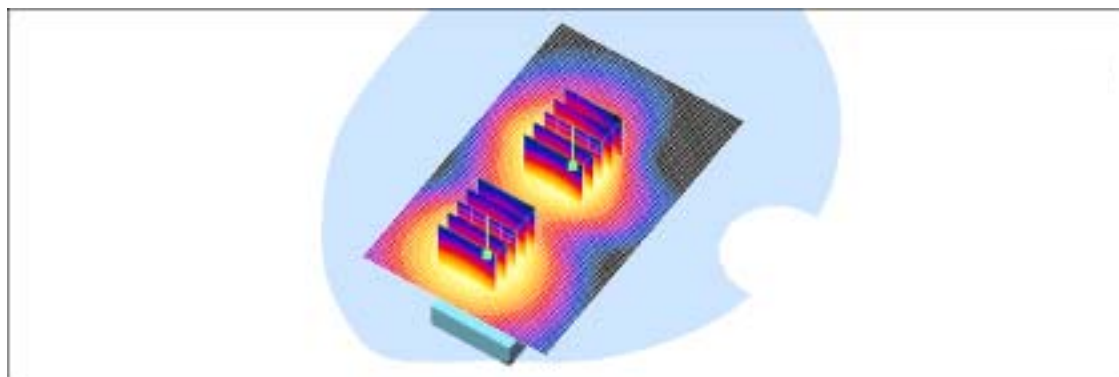
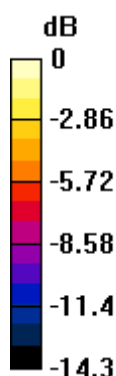
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.1 V/m; Power Drift = -0.2 dB

Peak SAR (extrapolated) = 1.03 W/kg

SAR(1 g) = 0.720 mW/g

Maximum value of SAR (measured) = 0.776 mW/g



0 dB = 0.776mW/g

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DUT: SPH-N345; Serial: FB-061-B

Program Name: SPH-N345 PCS Right (Job No.: FB-061)

Procedure Name: Cheek/Touch, Ch.1175, Ant.Intenna, Bat.Standard

Procedure Notes: Meas.Tissue Temp(celsius)-21.6; Test Date-08/Oct/2004[OET Bulletin 65-Supplement C, July 2001]

Communication System: PCS; Frequency: 1908.75 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1908.75 \text{ MHz}$; $\sigma = 1.39 \text{ mho/m}$; $\epsilon_r = 38.5$; $\rho = 1000 \text{ kg/m}^3$

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 Sn486; Calibrated: 2004-08-23
- 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.1175, Ant.Intenna, Bat.Standard/Area Scan (51x71x1):

Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$

Maximum value of SAR (interpolated) = 1.56 mW/g

Cheek/Touch, Ch.1175, Ant.Intenna, Bat.Standard/Zoom Scan

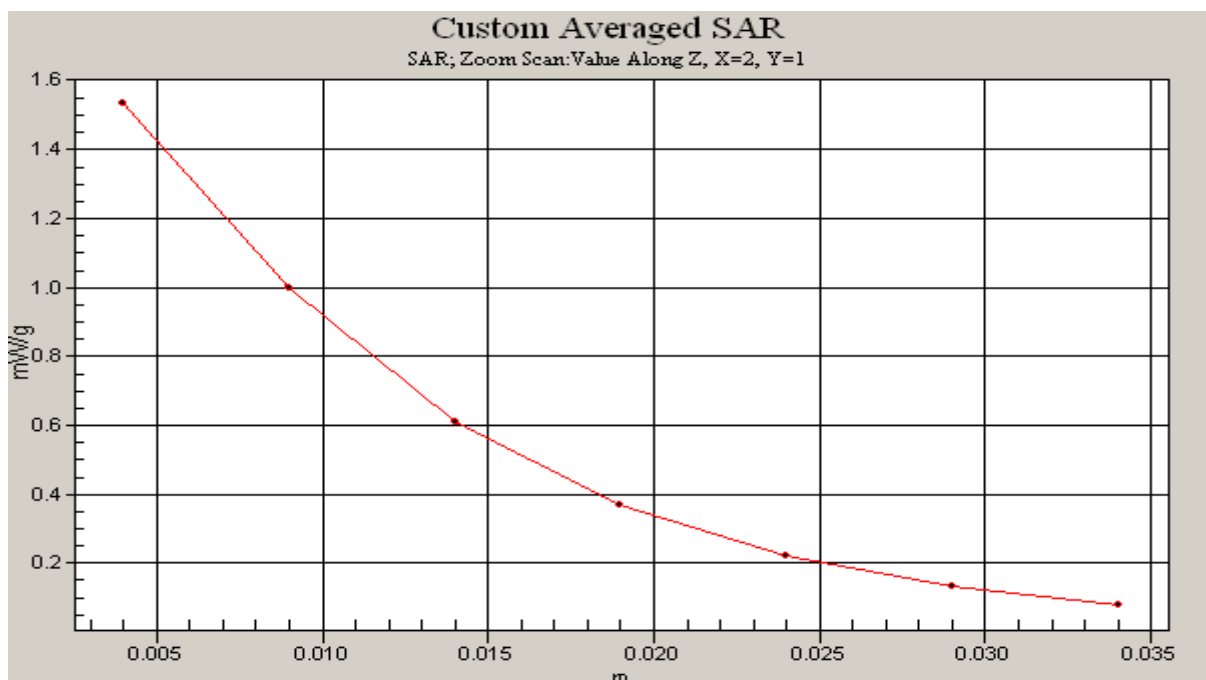
(5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 26.9 V/m ; Power Drift = 0.1 dB

Peak SAR (extrapolated) = 2.27 W/kg

SAR(1 g) = 1.45 mW/g

Maximum value of SAR (measured) = 1.53 mW/g



1900MHz Brain Dipole Validation

DUT: SPH-N345(Body); Serial: FB-061-B

Program Name: SPH-N345 PCS Body (Job No.: FB-061)

Procedure Name: Body, Ch.1175, Ant.Intenna, Bat.Standard

Procedure Notes: Meas.Tissue Temp(celsius)-21.1;Test Date-08/Oct/2004[OET Bulletin 65-Supplement C, July 2001]

Communication System: PCS; Frequency: 1908.75 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 1908.75$ MHz; $\sigma = 1.57$ mho/m; $\epsilon_r = 51.3$; $\rho = 1000$ kg/m³

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 Sn486; Calibrated: 2004-08-23
- 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.1175, Ant.Intenna, Bat.Standard/Area Scan (51x81x1):

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

Maximum value of SAR (interpolated) = 1.22 mW/g

Body, Ch.1175, Ant.Intenna, Bat.Standard/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 24.1 V/m; Power Drift = -0.2 dB

Peak SAR (extrapolated) = 1.57 W/kg

SAR(1 g) = 1.03 mW/g

Maximum value of SAR (measured) = 1.11 mW/g

Body, Ch.1175, Ant.Intenna, Bat.Standard/Zoom Scan (5x5x7)/Cube 1:

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

Reference Value = 24.1 V/m; Power Drift = -0.2 dB

Peak SAR (extrapolated) = 1.03 W/kg

SAR(1 g) = 0.720 mW/g

Maximum value of SAR (measured) = 0.776 mW/g

