



Compliance Certification Services Inc.

Report No: C140102S03-SF

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Test Laboratory: Compliance Certification Services Inc.

Date: 1/11/2014

GSM 850-Right Head Cheek Middle CH190

DUT: Nucleo Cell phone; Type: SPARQ; Serial: 356110052415525

Communication System: Generic GSM; Communication System Band: GSM 850 (824.0 - 849.0 MHz);

Frequency: 836.6 MHz; Duty Cycle: 1:8.30042

Medium parameters used: $f = 837$ MHz; $\sigma = 0.901$ S/m; $\epsilon_r = 43.075$; $\rho = 1000$ kg/m³

Room Ambient Temperature: 22°C; Liquid Temperature: 21.5°C

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(9.16, 9.16, 9.16); Calibrated: 7/26/2013;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 7/25/2013
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- DASY52 52.8.5(1059);
- SEMCAD X Version 14.6.8 (7028)

GSM850/Right Head Cheek Middle CH190/Area Scan (6x9x1):

Measurement grid: dx=15mm, dy=15mm, Maximum value of SAR (measured) = 0.681 W/kg

GSM850/Right Head Cheek Middle CH190/Zoom Scan (5x5x7)/Cube 0:

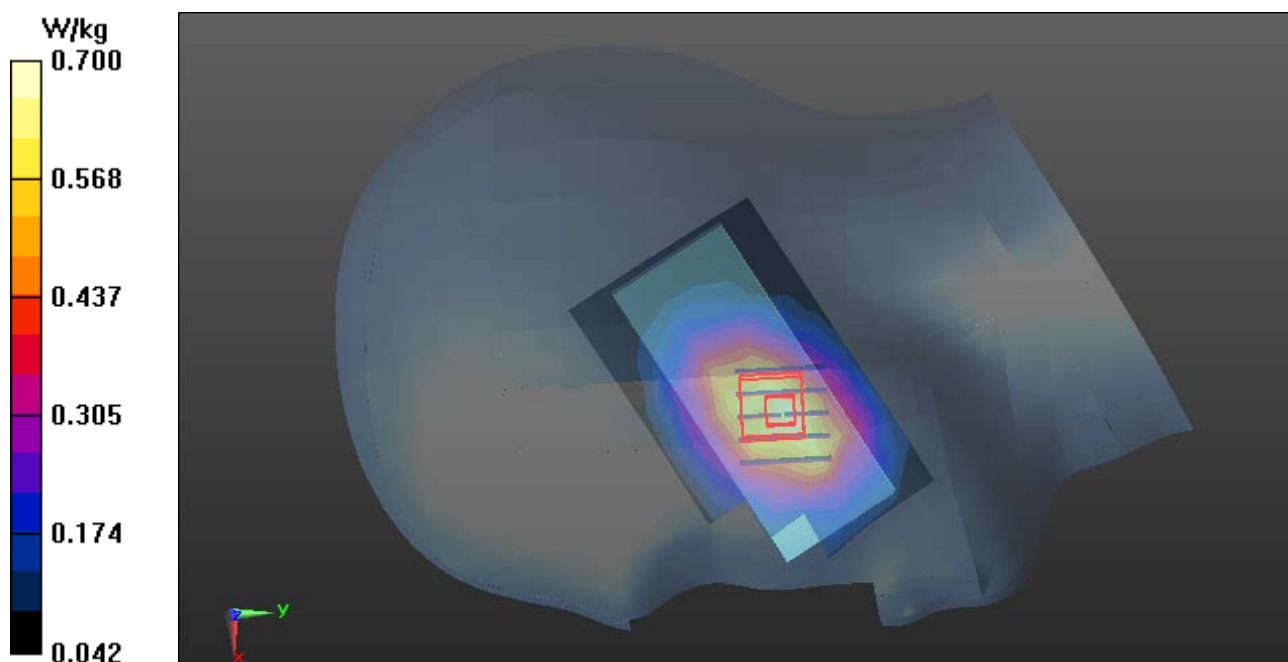
Measurement grid: dx=8mm, dy=8mm, dz=5mm

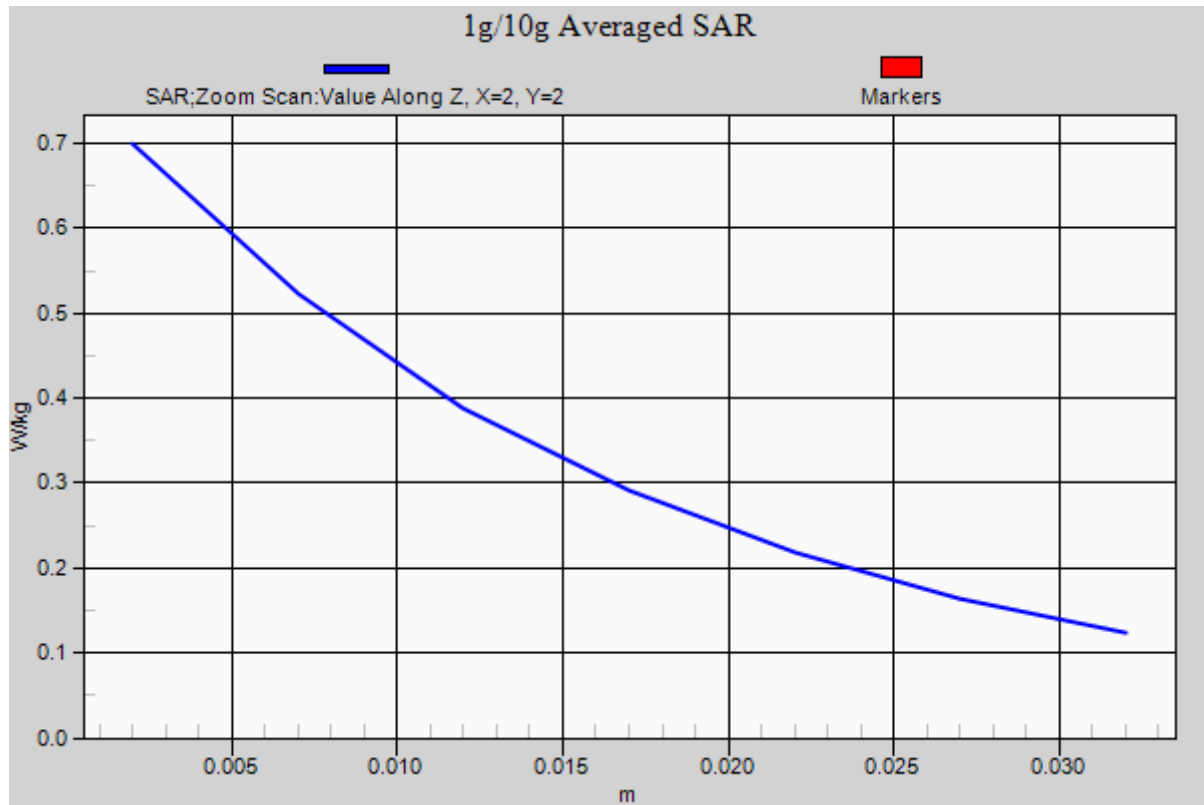
Reference Value = 9.055 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.807 W/kg

SAR(1 g) = 0.597 W/kg; SAR(10 g) = 0.440 W/kg

Maximum value of SAR (measured) = 0.700 W/kg







Test Laboratory: Compliance Certification Services Inc.

Date: 1/11/2014

GSM 850-Right Head Tilted Middle CH190**DUT: Nucleo Cell phone; Type: SPARQ; Serial: 356110052415525**

Communication System: Generic GSM; Communication System Band: GSM 850 (824.0 - 849.0 MHz);

Frequency: 836.6 MHz; Duty Cycle: 1:8.30042

Medium parameters used: $f = 837$ MHz; $\sigma = 0.901$ S/m; $\epsilon_r = 43.075$; $\rho = 1000$ kg/m³

Room Ambient Temperature: 22°C; Liquid Temperature: 21.5°C

Phantom section: Right Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(9.16, 9.16, 9.16); Calibrated: 7/26/2013;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 7/25/2013
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- DASY52 52.8.5(1059);
- SEMCAD X Version 14.6.8 (7028)

GSM850/Right Head Tilted Middle CH190/Area Scan (6x9x1):

Measurement grid: dx=15mm, dy=15mm, Maximum value of SAR (measured) = 0.362 W/kg

GSM850/Right Head Tilted Middle CH190/Zoom Scan (5x5x7)/Cube 0:

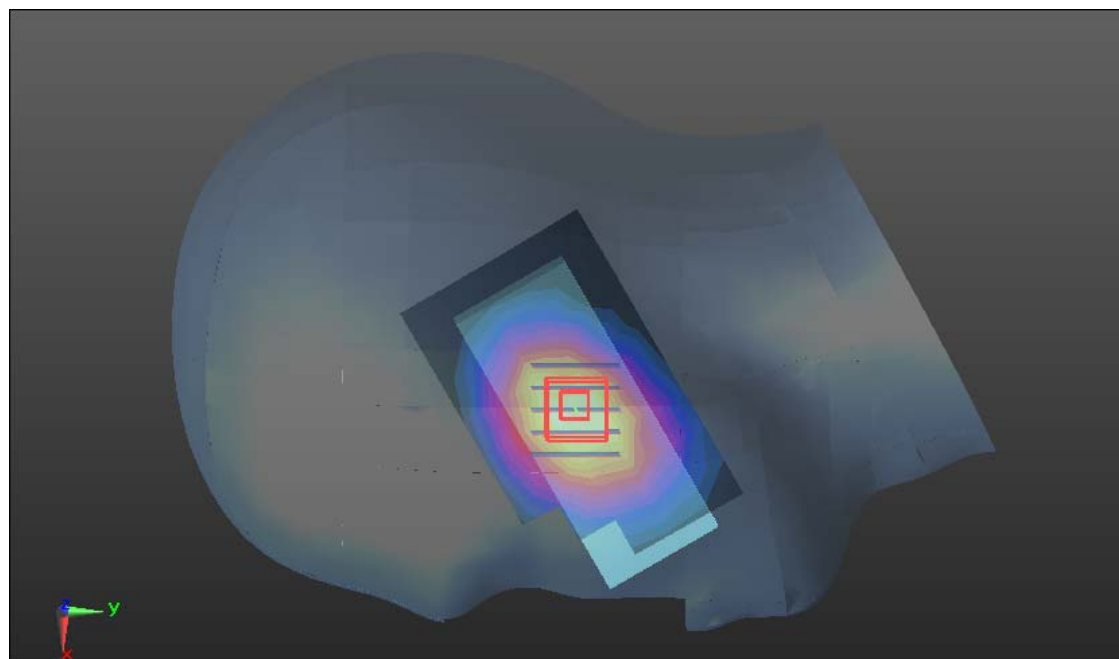
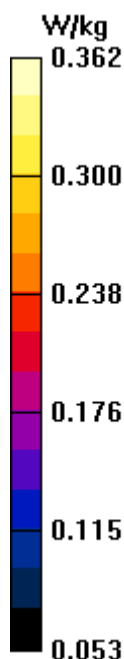
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.709 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.392 W/kg

SAR(1 g) = 0.318 W/kg; SAR(10 g) = 0.242 W/kg

Maximum value of SAR (measured) = 0.700 W/kg





Test Laboratory: Compliance Certification Services Inc.

Date: 1/11/2014

GSM 850-Left Head Cheek Middle CH190

DUT: Nucleo Cell phone; Type: SPARQ; Serial: 356110052415525

Communication System: Generic GSM; Communication System Band: GSM 850 (824.0 - 849.0 MHz);

Frequency: 836.6 MHz; Duty Cycle: 1:7.99834

Medium parameters used: $f = 837$ MHz; $\sigma = 0.901$ S/m; $\epsilon_r = 43.075$; $\rho = 1000$ kg/m³

Room Ambient Temperature: 22°C; Liquid Temperature: 21.5°C

Phantom section: Left Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(9.16, 9.16, 9.16); Calibrated: 7/26/2013;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 7/25/2013
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- DASYS 52.8.5(1059);
- SEMCAD X Version 14.6.8 (7028)

GSM850/Left Head Cheek Middle CH190/Area Scan (6x9x1):

Measurement grid: dx=15mm, dy=15mm, Maximum value of SAR (measured) = 0.655 W/kg

GSM850/Left Head Cheek Middle CH190/Zoom Scan (5x5x7)/Cube 0:

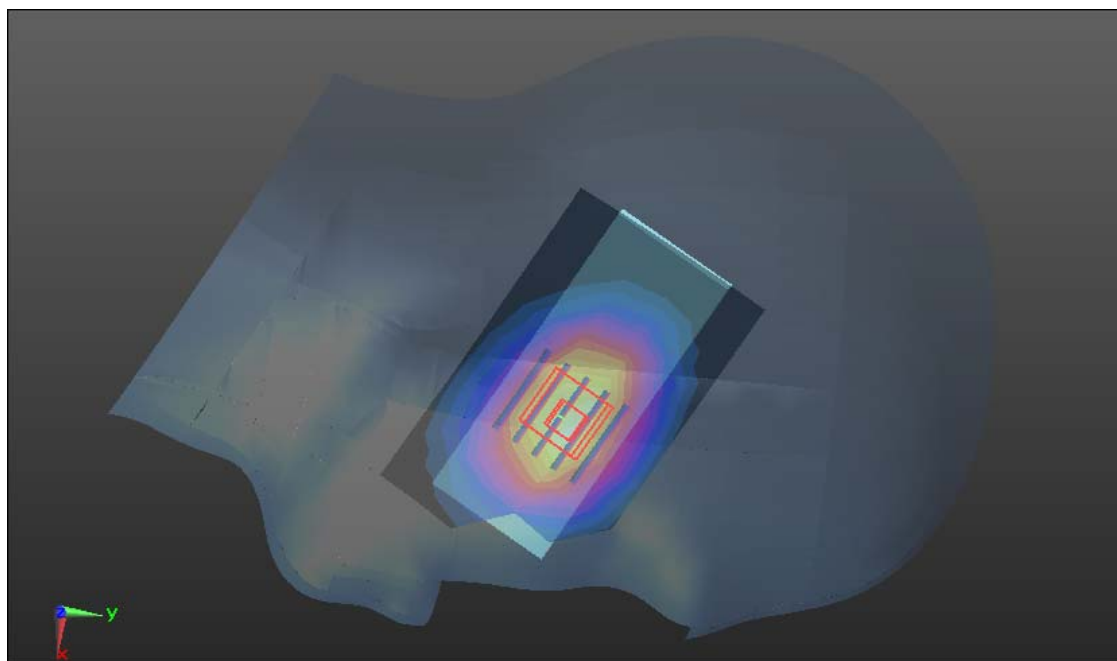
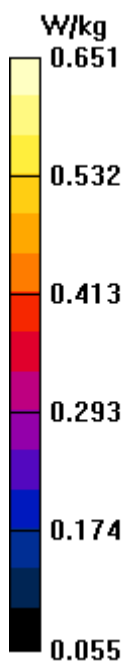
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.489 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.700 W/kg

SAR(1 g) = 0.575 W/kg; SAR(10 g) = 0.440 W/kg

Maximum value of SAR (measured) = 0.651 W/kg





Test Laboratory: Compliance Certification Services Inc.

Date: 1/11/2014

GSM 850-Left Head Tilted Middle CH190**DUT: Nucleo Cell phone; Type: SPARQ; Serial: 356110052415525**

Communication System: Generic GSM; Communication System Band: GSM 850 (824.0 - 849.0 MHz);

Frequency: 836.6 MHz; Duty Cycle: 1:7.99834

Medium parameters used: $f = 837$ MHz; $\sigma = 0.901$ S/m; $\epsilon_r = 43.075$; $\rho = 1000$ kg/m³

Room Ambient Temperature: 22°C; Liquid Temperature: 21.5°C

Phantom section: Left Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(9.16, 9.16, 9.16); Calibrated: 7/26/2013;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 7/25/2013
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- DASYS 52.8.5(1059);
- SEMCAD X Version 14.6.8 (7028)

GSM850/Left Head Tilted Middle CH190/Area Scan (6x9x1):

Measurement grid: dx=15mm, dy=15mm, Maximum value of SAR (measured) = 0.348 W/kg

GSM850/Left Head Tilted Middle CH190/Zoom Scan (5x5x7)/Cube 0:

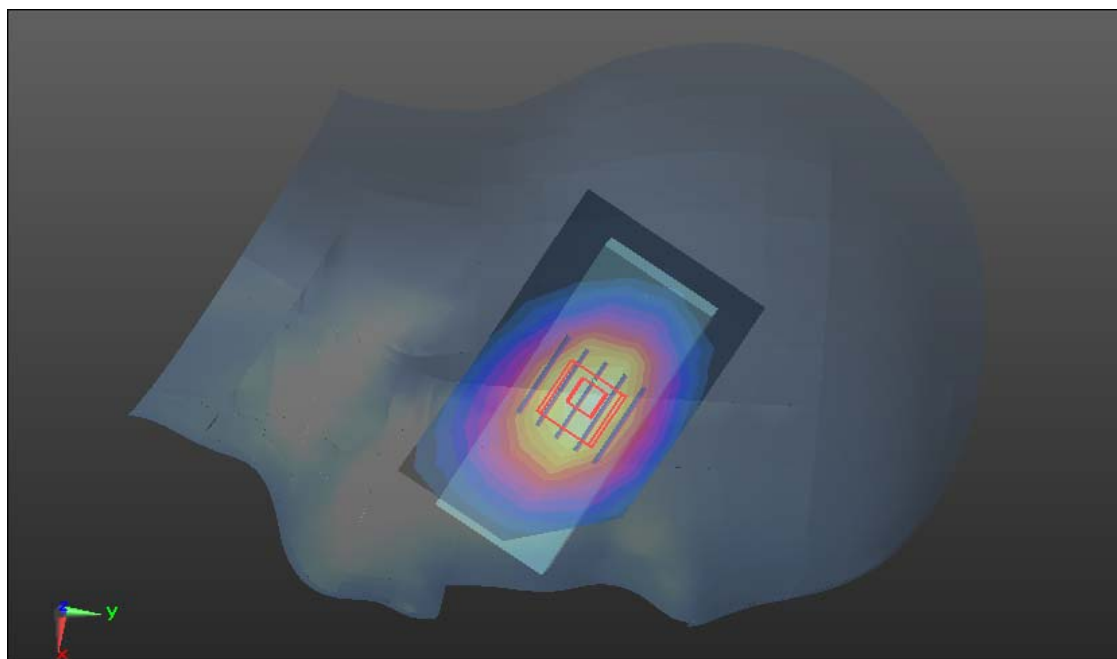
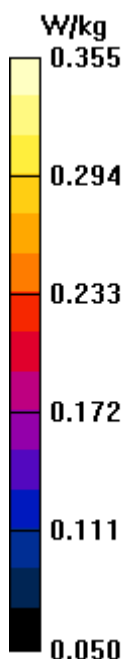
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.053 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.386 W/kg

SAR(1 g) = 0.307 W/kg; SAR(10 g) = 0.233 W/kg

Maximum value of SAR (measured) = 0.355 W/kg





Test Laboratory: Compliance Certification Services Inc.

Date: 1/12/2014

PCS 1900-Right Head Cheek Middle CH661

DUT: Nucleo Cell phone; Type: SPARQ; Serial: 356110052415525

Communication System: Generic GSM; Communication System Band: PCS1900; Frequency: 1880 MHz; Duty Cycle: 1:8.30042

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.406$ S/m; $\epsilon_r = 38.518$; $\rho = 1000$ kg/m³

Room Ambient Temperature: 22°C; Liquid Temperature: 21.5°C

Phantom section: Right Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(7.73, 7.73, 7.73); Calibrated: 7/26/2013;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 7/25/2013
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- DASYS 52.8.5(1059);
- SEMCAD X Version 14.6.8 (7028)

PCS1900/Right Head Cheek Middle CH661/Area Scan (6x7x1):

Measurement grid: dx=15mm, dy=15mm, Maximum value of SAR (measured) = 0.587 W/kg

PCS1900/Right Head Cheek Middle CH661/Zoom Scan (5x5x7)/Cube 0:

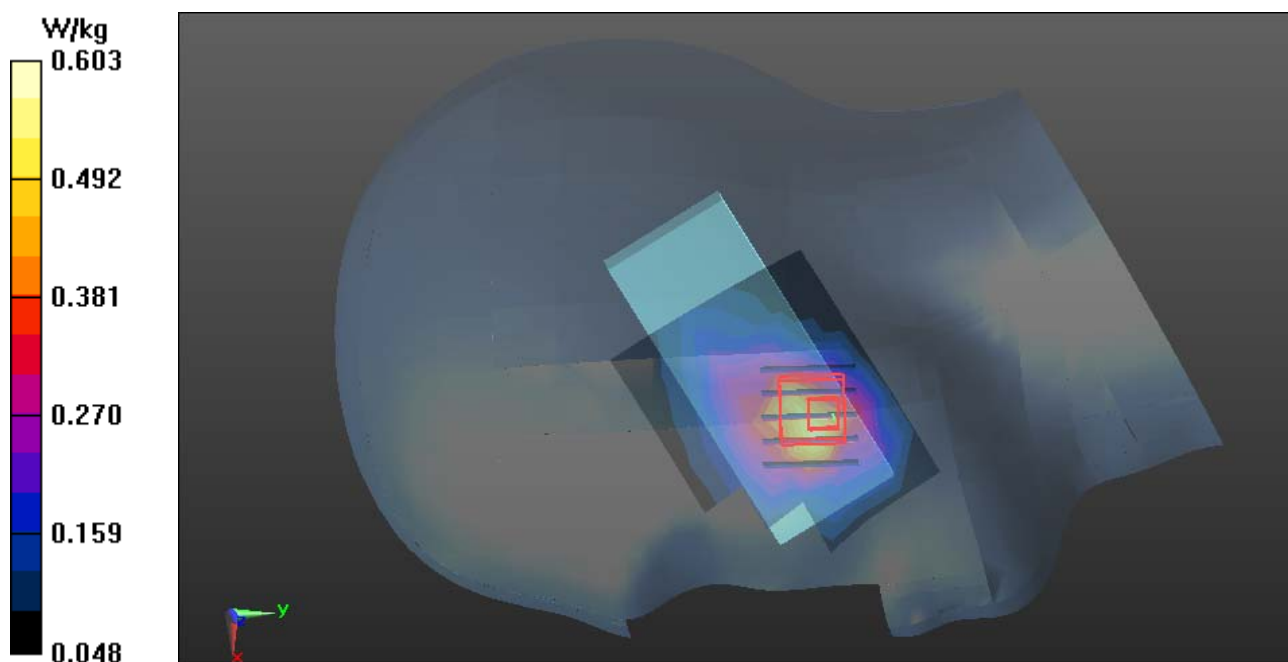
Measurement grid: dx=8mm, dy=8mm, dz=5mm

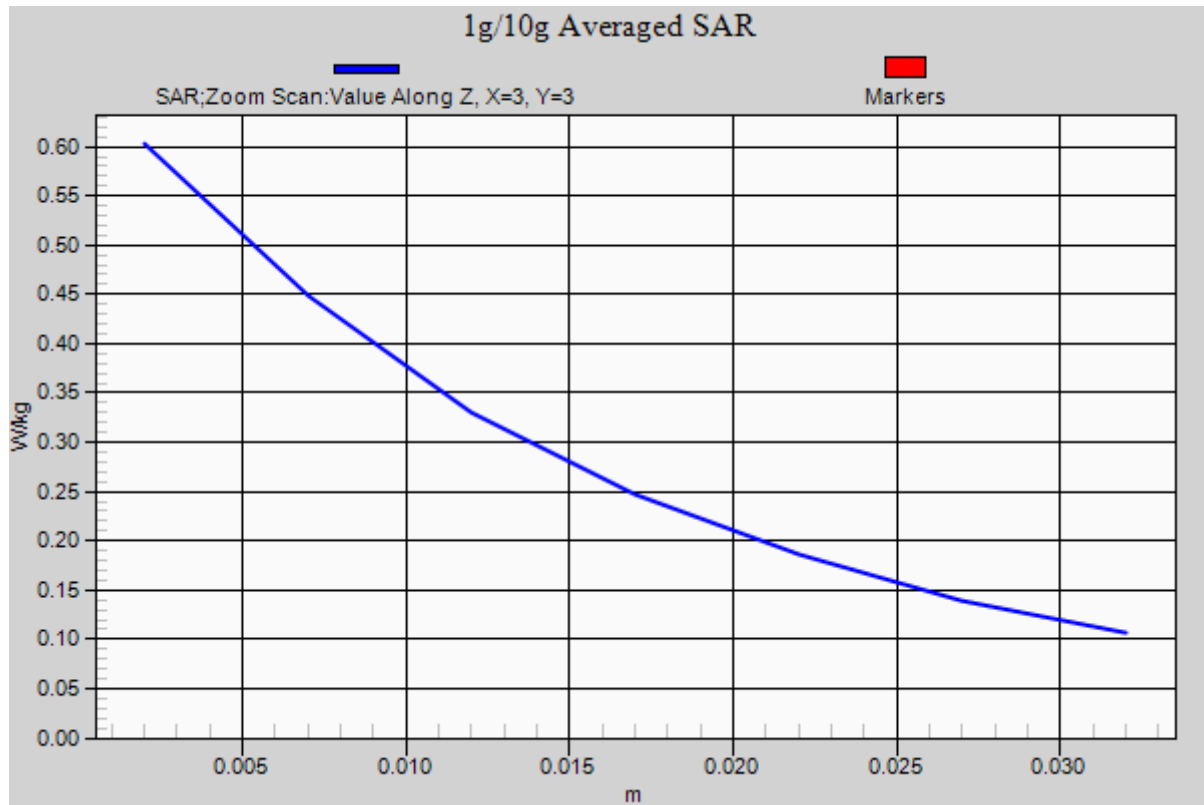
Reference Value = 8.217 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.679 W/kg

SAR(1 g) = 0.510 W/kg; SAR(10 g) = 0.380 W/kg

Maximum value of SAR (measured) = 0.603 W/kg







Test Laboratory: Compliance Certification Services Inc.

Date: 1/12/2014

PCS 1900-Right Head Tilted Middle CH661

DUT: Nucleo Cell phone; Type: SPARQ; Serial: 356110052415525

Communication System: Generic GSM; Communication System Band: PCS1900; Frequency: 1880 MHz; Duty Cycle: 1:8.30042

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.406$ S/m; $\epsilon_r = 38.518$; $\rho = 1000$ kg/m³

Room Ambient Temperature: 22°C; Liquid Temperature: 21.5°C

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(7.73, 7.73, 7.73); Calibrated: 7/26/2013;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 7/25/2013
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- DASY52 52.8.5(1059);
- SEMCAD X Version 14.6.8 (7028)

PCS1900/Right Head Tilted Middle CH661/Area Scan (6x8x1):

Measurement grid: dx=15mm, dy=15mm, Maximum value of SAR (measured) = 0.361 W/kg

PCS1900/Right Head Tilted Middle CH661/Zoom Scan (5x5x7)/Cube 0:

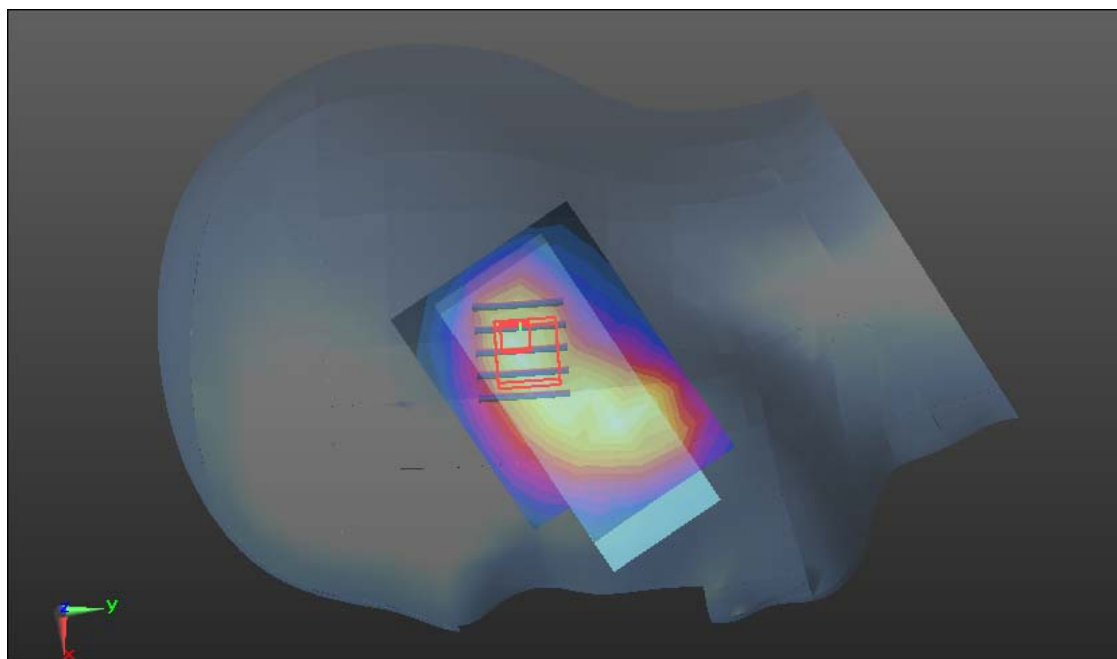
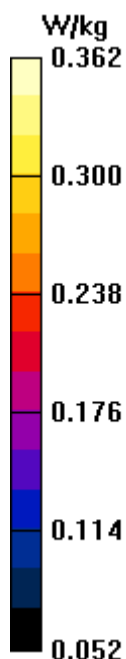
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.580 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.393 W/kg

SAR(1 g) = 0.321 W/kg; SAR(10 g) = 0.247 W/kg

Maximum value of SAR (measured) = 0.362 W/kg





Test Laboratory: Compliance Certification Services Inc.

Date: 1/12/2014

PCS 1900-Left Head Cheek Middle CH661**DUT: Nucleo Cell phone; Type: SPARQ; Serial: 356110052415525**

Communication System: Generic GSM; Communication System Band: PCS1900; Frequency: 1880 MHz; Duty Cycle: 1:8.30042

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.406$ S/m; $\epsilon_r = 38.518$; $\rho = 1000$ kg/m³

Room Ambient Temperature: 22°C; Liquid Temperature: 21.5°C

Phantom section: Left Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(7.73, 7.73, 7.73); Calibrated: 7/26/2013;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 7/25/2013
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- DASYS 52.8.5(1059);
- SEMCAD X Version 14.6.8 (7028)

PCS1900/Left Head Cheek Middle CH661/Area Scan (6x7x1):

Measurement grid: dx=15mm, dy=15mm, Maximum value of SAR (measured) = 0.530 W/kg

PCS1900/Left Head Cheek Middle CH661/Zoom Scan (5x5x7)/Cube 0:

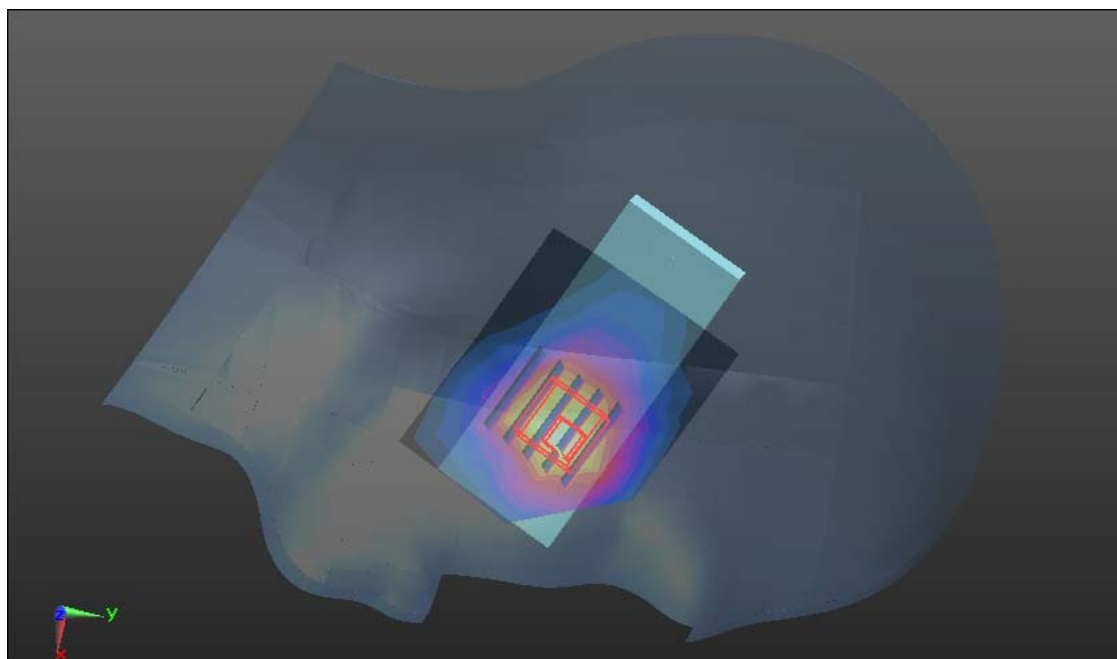
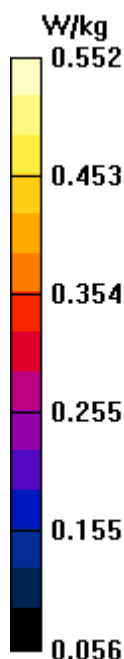
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.241 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.596 W/kg

SAR(1 g) = 0.492 W/kg; SAR(10 g) = 0.380 W/kg

Maximum value of SAR (measured) = 0.552 W/kg





Test Laboratory: Compliance Certification Services Inc.

Date: 1/12/2014

PCS 1900-Left Head Tilted Middle CH661

DUT: Nucleo Cell phone; Type: SPARQ; Serial: 356110052415525

Communication System: Generic GSM; Communication System Band: PCS1900; Frequency: 1880 MHz; Duty Cycle: 1:8.30042

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.406$ S/m; $\epsilon_r = 38.518$; $\rho = 1000$ kg/m³

Room Ambient Temperature: 22°C; Liquid Temperature: 21.5°C

Phantom section: Left Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(7.73, 7.73, 7.73); Calibrated: 7/26/2013;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 7/25/2013
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- DASYS 52.8.5(1059);
- SEMCAD X Version 14.6.8 (7028)

PCS1900/Left Head Tilted Middle CH661/Area Scan (6x8x1):

Measurement grid: dx=15mm, dy=15mm, Maximum value of SAR (measured) = 0.298 W/kg

PCS1900/Left Head Tilted Middle CH661/Zoom Scan (6x6x7)/Cube 0:

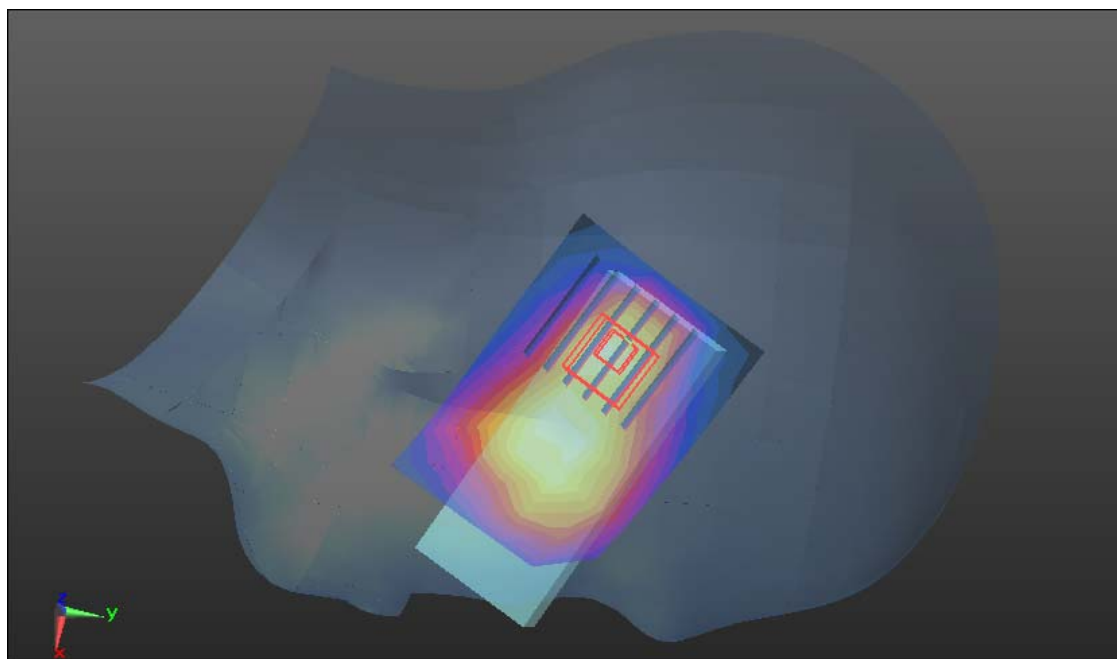
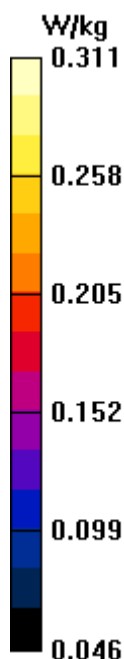
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.654 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.338 W/kg

SAR(1 g) = 0.272 W/kg; SAR(10 g) = 0.207 W/kg

Maximum value of SAR (measured) = 0.311 W/kg





Test Laboratory: Compliance Certification Services Inc.

Date: 1/11/2014

GSM 850-Body Front Middle CH190**DUT: Nucleo Cell phone; Type: SPARQ; Serial: 356110052415525**

Communication System: Generic GSM; Communication System Band: GSM 850 (824.0 - 849.0 MHz);

Frequency: 836.6 MHz; Duty Cycle: 1:7.99834

Medium parameters used: $f = 837$ MHz; $\sigma = 0.987$ S/m; $\epsilon_r = 54.688$; $\rho = 1000$ kg/m³

Room Ambient Temperature: 22°C; Liquid Temperature: 21.5°C

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(9.27, 9.27, 9.27); Calibrated: 7/26/2013;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 7/25/2013
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- DASY52 52.8.5(1059);
- SEMCAD X Version 14.6.8 (7028)

GSM 850/GSM850 Body Front Middle CH190/Area Scan (9x6x1):

Measurement grid: dx=15mm, dy=15mm, Maximum value of SAR (measured) = 0.459 W/kg

GSM 850/GSM850 Body Front Middle CH190/Zoom Scan (5x5x7)/Cube 0:

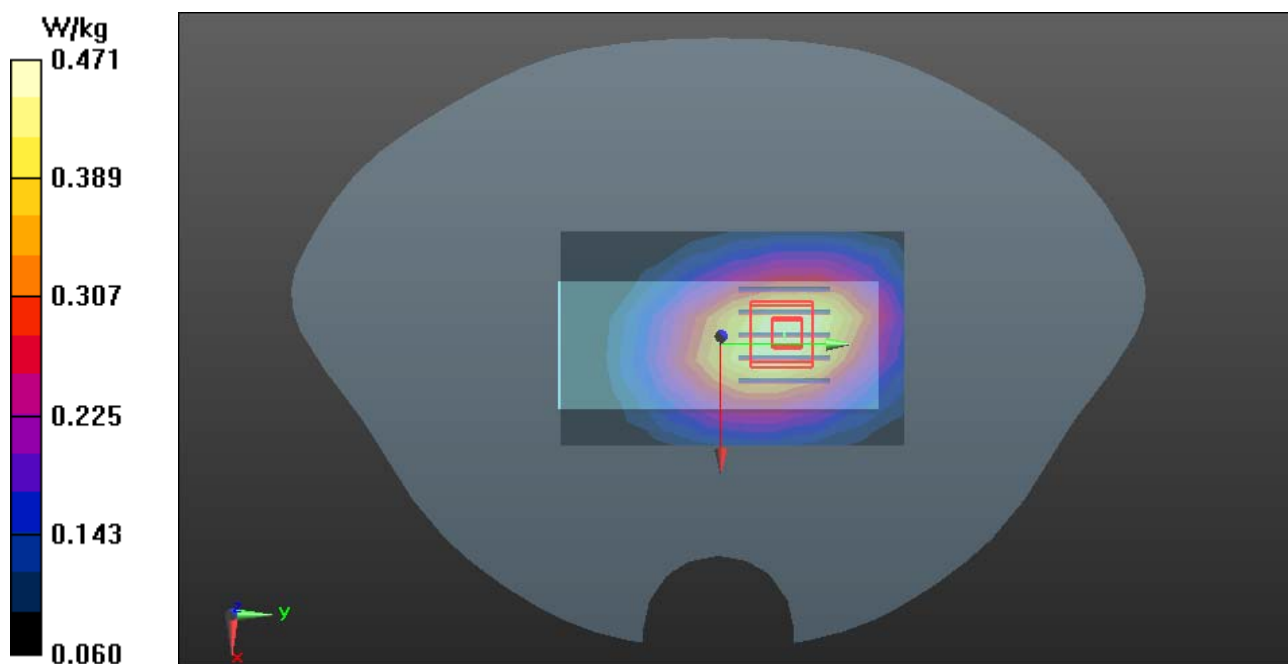
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.168 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.520 W/kg

SAR(1 g) = 0.407 W/kg; SAR(10 g) = 0.305 W/kg

Maximum value of SAR (measured) = 0.471 W/kg





Test Laboratory: Compliance Certification Services Inc.

Date: 1/11/2014

GSM 850-Body Rear Middle CH190

DUT: Nucleo Cell phone; Type: SPARQ; Serial: 356110052415525

Communication System: Generic GSM; Communication System Band: GSM 850 (824.0 - 849.0 MHz);

Frequency: 836.6 MHz; Duty Cycle: 1:7.99834

Medium parameters used: $f = 837$ MHz; $\sigma = 0.987$ S/m; $\epsilon_r = 54.688$; $\rho = 1000$ kg/m³

Room Ambient Temperature: 22°C; Liquid Temperature: 21.5°C

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(9.27, 9.27, 9.27); Calibrated: 7/26/2013;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 7/25/2013
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- DASY52 52.8.5(1059);
- SEMCAD X Version 14.6.8 (7028)

GSM 850/GSM850 Body Rear Middle CH190/Area Scan (9x6x1):

Measurement grid: dx=15mm, dy=15mm, Maximum value of SAR (measured) = 0.499 W/kg

GSM 850/GSM850 Body Rear Middle CH190/Zoom Scan (5x5x7)/Cube 0:

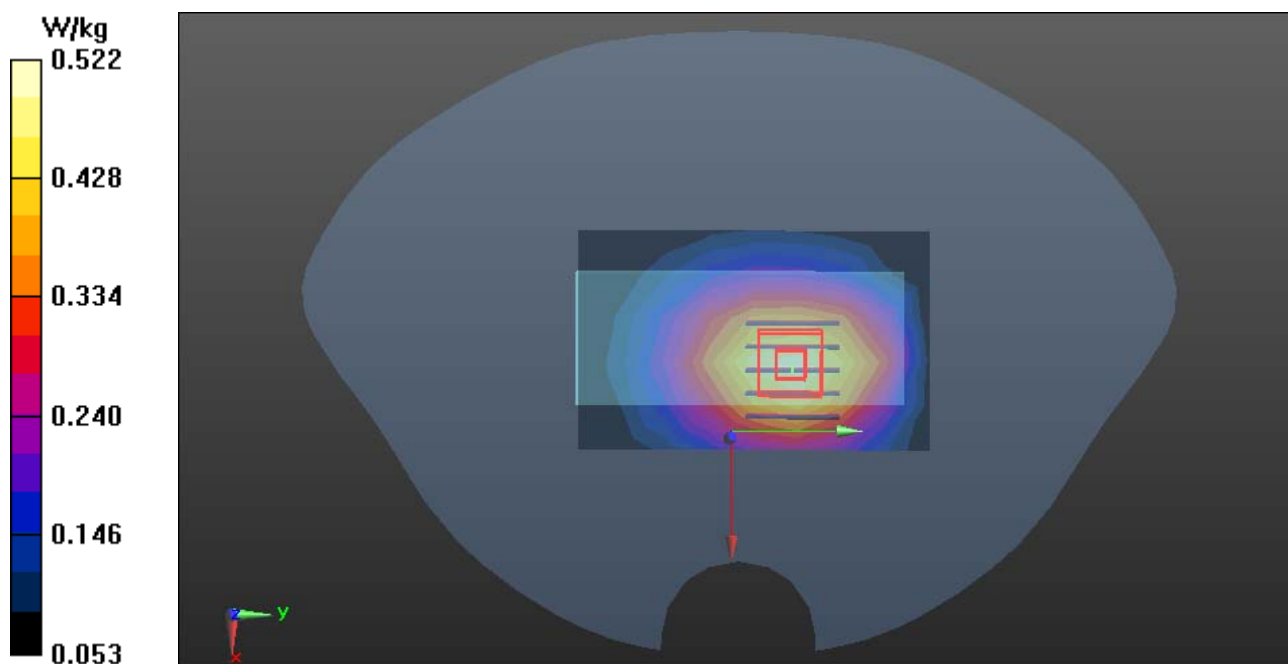
Measurement grid: dx=8mm, dy=8mm, dz=5mm

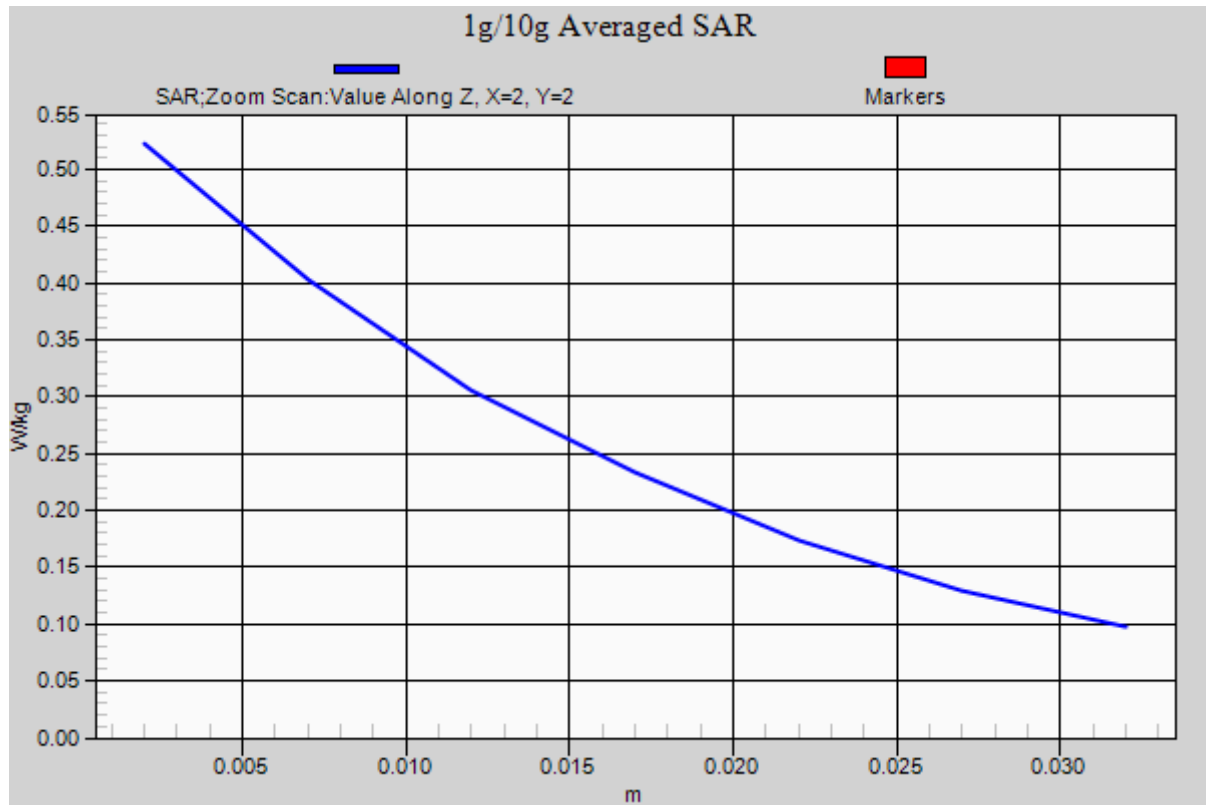
Reference Value = 21.708 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.586 W/kg

SAR(1 g) = 0.449 W/kg; SAR(10 g) = 0.330 W/kg

Maximum value of SAR (measured) = 0.522 W/kg







Test Laboratory: Compliance Certification Services Inc.

Date: 1/12/2014

PCS 1900-Body Front Middle CH661**DUT: Nucleo Cell phone; Type: SPARQ; Serial: 356110052415525**

Communication System: Generic GSM; Communication System Band: PCS1900; Frequency: 1880 MHz; Duty Cycle: 1:8.30042

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.561$ S/m; $\epsilon_r = 53.6$; $\rho = 1000$ kg/m³

Room Ambient Temperature: 22°C; Liquid Temperature: 21.5°C

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(7.32, 7.32, 7.32); Calibrated: 7/26/2013;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 7/25/2013
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- DASY52 52.8.5(1059);
- SEMCAD X Version 14.6.8 (7028)

PCS 1900/ Body Front Middle CH661/Area Scan (9x6x1):

Measurement grid: dx=15mm, dy=15mm, Maximum value of SAR (measured) = 0.249 W/kg

PCS 1900/ Body Front Middle CH661/Zoom Scan (5x5x7)/Cube 0:

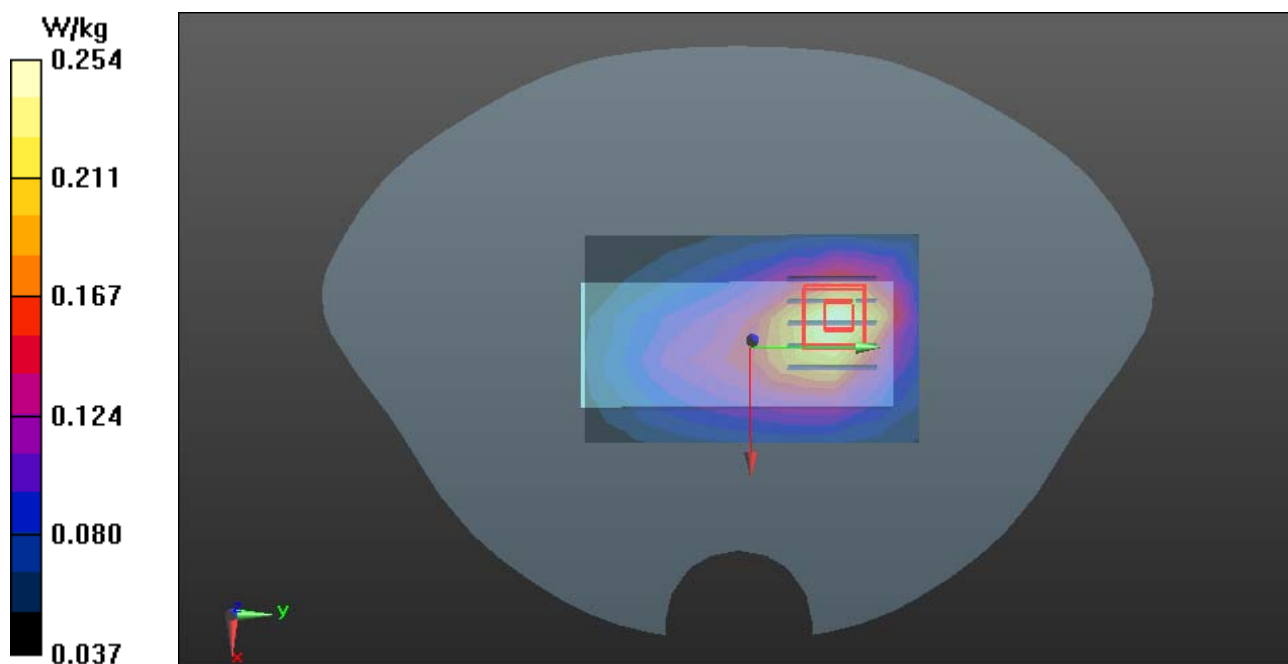
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.465 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.276 W/kg

SAR(1 g) = 0.224 W/kg; SAR(10 g) = 0.173 W/kg

Maximum value of SAR (measured) = 0.254 W/kg





Test Laboratory: Compliance Certification Services Inc.

Date: 1/12/2014

PCS 1900-Body Rear Middle CH661

DUT: Nucleo Cell phone; Type: SPARQ; Serial: 356110052415525

Communication System: Generic GSM; Communication System Band: PCS1900; Frequency: 1880 MHz; Duty Cycle: 1:8.30042

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.561$ S/m; $\epsilon_r = 53.6$; $\rho = 1000$ kg/m³

Room Ambient Temperature: 22°C; Liquid Temperature: 21.5°C

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(7.32, 7.32, 7.32); Calibrated: 7/26/2013;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 7/25/2013
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- DASY52 52.8.5(1059);
- SEMCAD X Version 14.6.8 (7028)

PCS 1900/ Body Rear Middle CH661/Area Scan (9x6x1):

Measurement grid: dx=15mm, dy=15mm, Maximum value of SAR (measured) = 0.431 W/kg

PCS 1900/ Body Rear Middle CH661/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 7.092 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.499 W/kg

SAR(1 g) = 0.374 W/kg; SAR(10 g) = 0.274 W/kg

Maximum value of SAR (measured) = 0.443 W/kg

