

Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

### right\_ch0\_cheek

**DUT: USB7100; Type: 2.4GHz Cordless VoIP Phone; Serial: USB7100, USB711**

Communication System: 2.4GHz; Frequency: 2401.92 MHz; Duty Cycle: 1:24

Medium: Head 2450 MHz Medium parameters used (interpolated):  $f = 2401.92$  MHz;  $\sigma = 1.83$  mho/m;  $\epsilon_r = 38$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1711; ConvF(4.6, 4.6, 4.6); Calibrated: 12/16/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 1/12/2004
- Phantom: SAM 12; Type: TP-1217; Serial: QD000P40CA
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

**right\_ch0\_cheek/Area Scan (71x131x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.064 mW/g

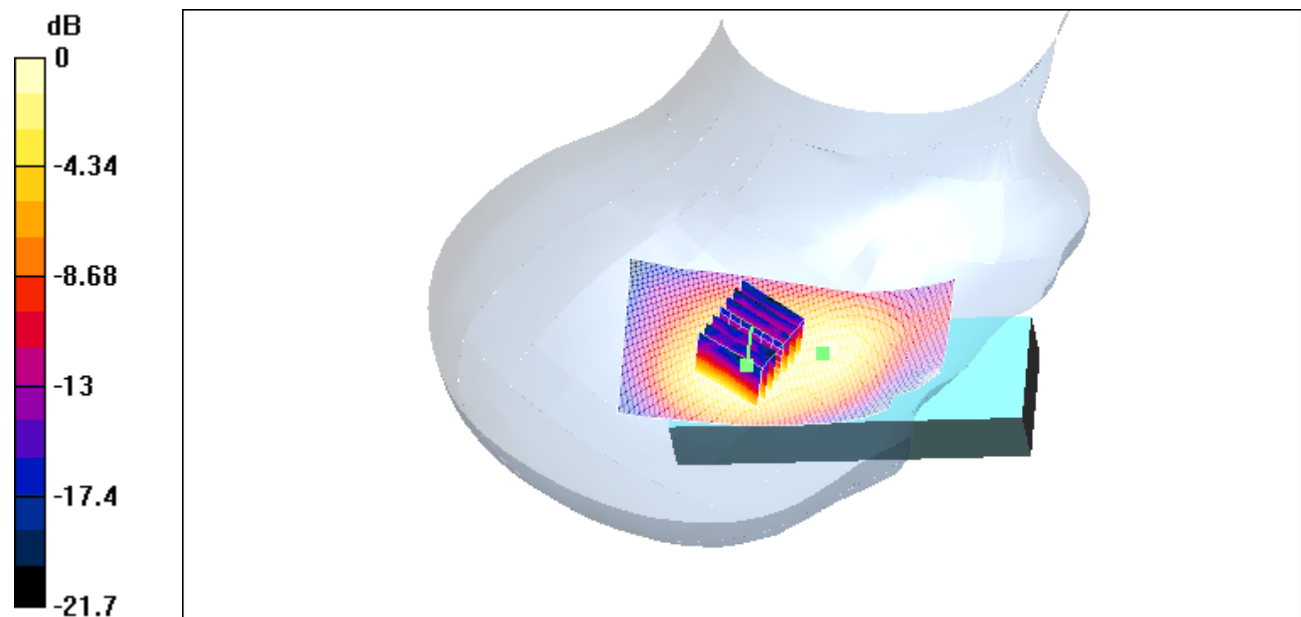
**right\_ch0\_cheek/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.38 V/m; Power Drift = -0.0 dB

Peak SAR (extrapolated) = 0.112 W/kg

**SAR(1 g) = 0.060 mW/g; SAR(10 g) = 0.032 mW/g**

Maximum value of SAR (measured) = 0.065 mW/g



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### right\_ch23\_cheek

**DUT: USB7100; Type: 2.4GHz Cordless VoIP Phone; Serial: USB7100, USB711**

Communication System: 2.4GHz; Frequency: 2441.66 MHz; Duty Cycle: 1:24

Medium: Head 2450 MHz Medium parameters used (interpolated):  $f = 2441.66$  MHz;  $\sigma = 1.87$  mho/m;  $\epsilon_r = 37.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1711; ConvF(4.6, 4.6, 4.6); Calibrated: 12/16/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 1/12/2004
- Phantom: SAM 12; Type: TP-1217; Serial: QD000P40CA
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

**right\_ch23\_cheek/Area Scan (71x131x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.060 mW/g

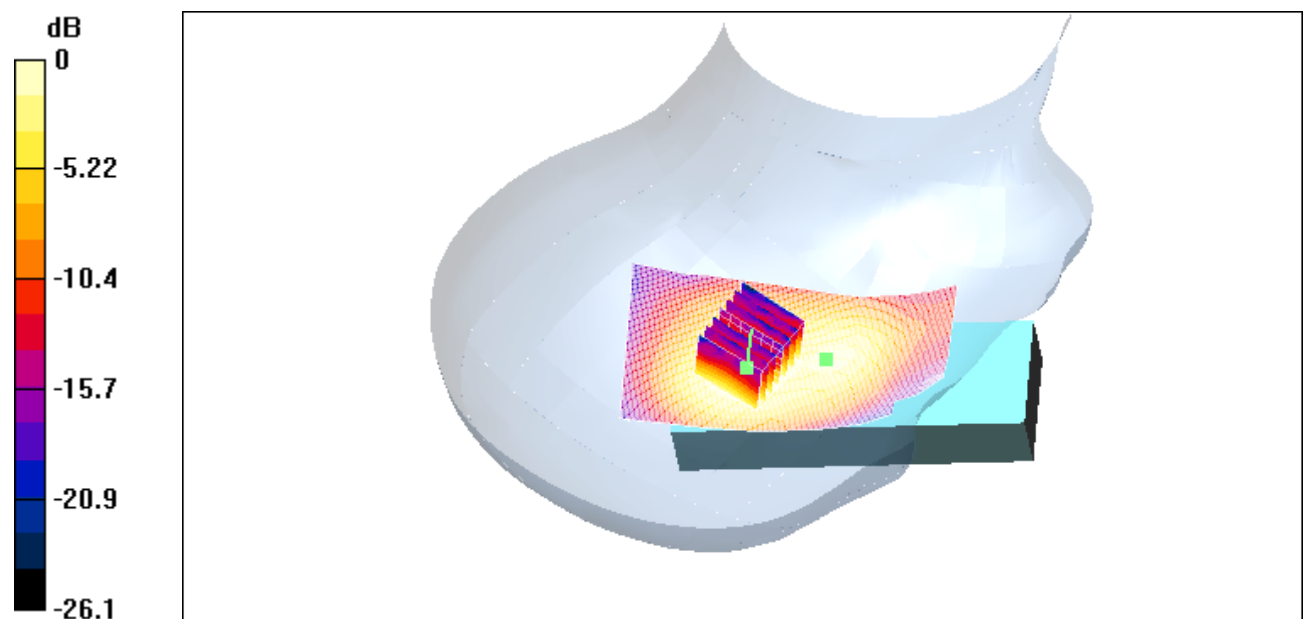
**right\_ch23\_cheek/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.24 V/m; Power Drift = -0.009 dB

Peak SAR (extrapolated) = 0.104 W/kg

**SAR(1 g) = 0.055 mW/g; SAR(10 g) = 0.030 mW/g**

Maximum value of SAR (measured) = 0.060 mW/g



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### right\_ch46\_cheek

**DUT: USB7100; Type: 2.4GHz Cordless VoIP Phone; Serial: USB7100, USB711**

Communication System: 2.4GHz; Frequency: 2481.41 MHz; Duty Cycle: 1:24

Medium: Head 2450 MHz Medium parameters used (interpolated):  $f = 2481.41$  MHz;  $\sigma = 1.88$  mho/m;  $\epsilon_r = 37.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1711; ConvF(4.6, 4.6, 4.6); Calibrated: 12/16/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 1/12/2004
- Phantom: SAM 12; Type: TP-1217; Serial: QD000P40CA
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

**right\_ch46\_cheek/Area Scan (71x131x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.055 mW/g

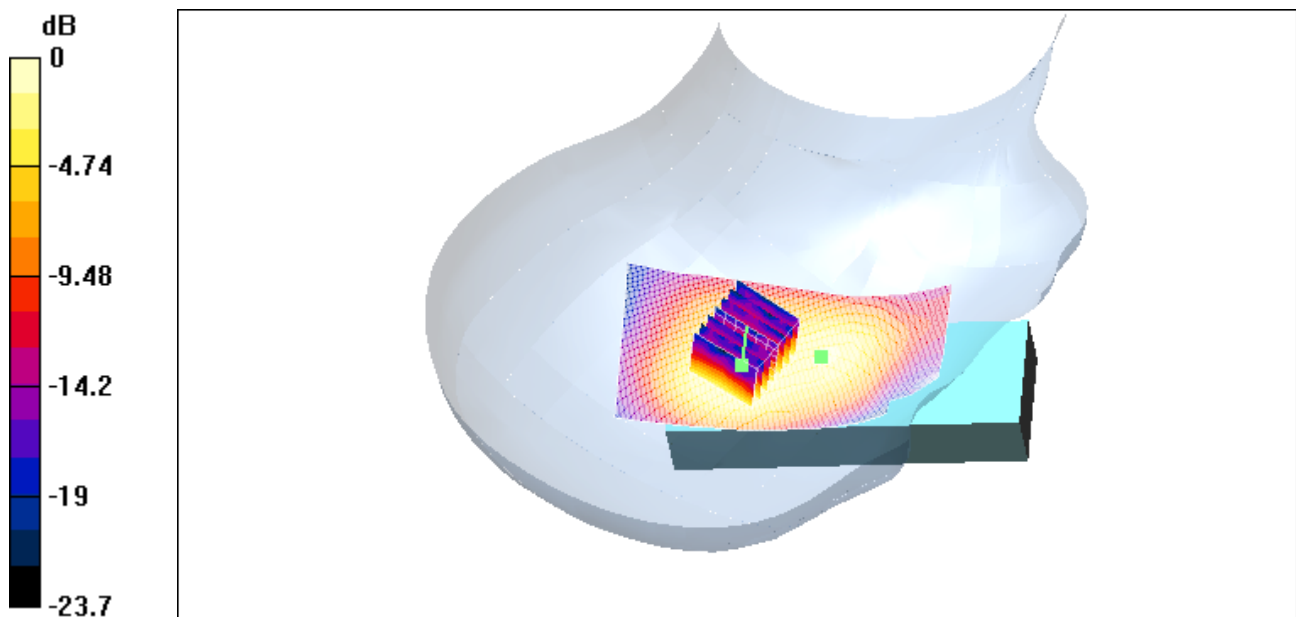
**right\_ch46\_cheek/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4 V/m; Power Drift = 0.0 dB

Peak SAR (extrapolated) = 0.101 W/kg

**SAR(1 g) = 0.052 mW/g; SAR(10 g) = 0.027 mW/g**

Maximum value of SAR (measured) = 0.056 mW/g



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### right\_ch0\_tilted

**DUT: USB7100; Type: 2.4GHz Cordless VoIP Phone; Serial: USB7100, USB711**

Communication System: 2.4GHz; Frequency: 2401.92 MHz; Duty Cycle: 1:24

Medium: Head 2450 MHz Medium parameters used (interpolated):  $f = 2401.92$  MHz;  $\sigma = 1.83$  mho/m;  $\epsilon_r = 38$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1711; ConvF(4.6, 4.6, 4.6); Calibrated: 12/16/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 1/12/2004
- Phantom: SAM 12; Type: TP-1217; Serial: QD000P40CA
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

**right\_ch0\_tilted/Area Scan (71x81x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.050 mW/g

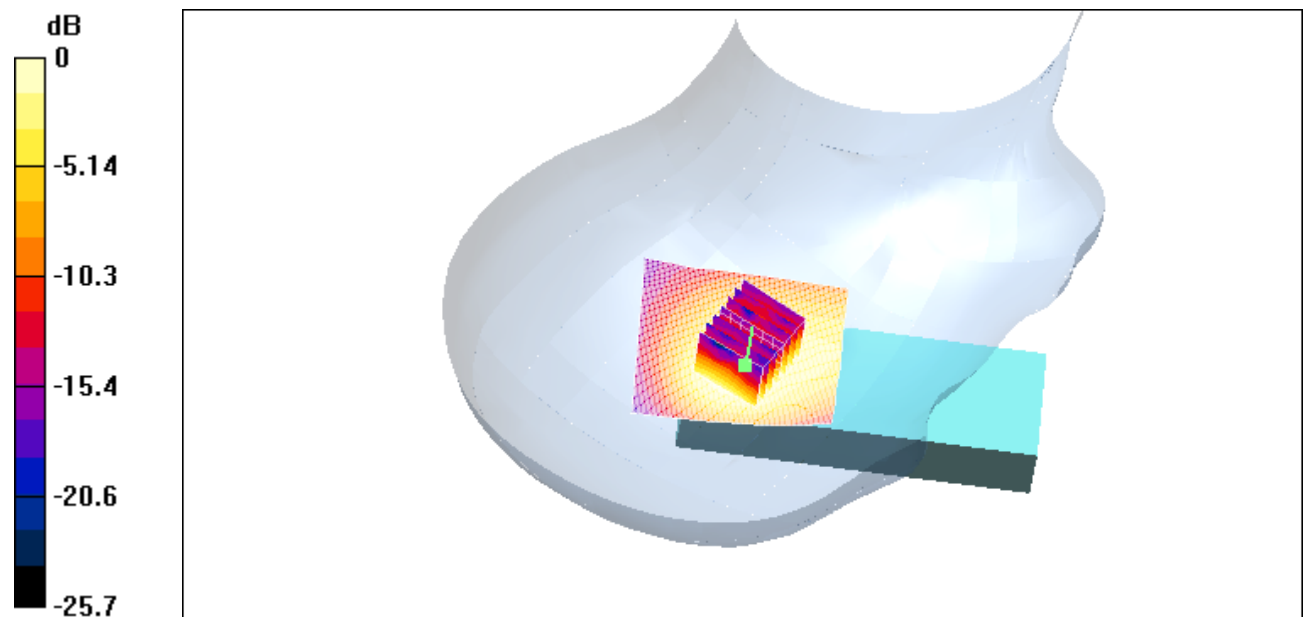
**right\_ch0\_tilted/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.51 V/m; Power Drift = -0.0 dB

Peak SAR (extrapolated) = 0.087 W/kg

**SAR(1 g) = 0.046 mW/g; SAR(10 g) = 0.025 mW/g**

Maximum value of SAR (measured) = 0.050 mW/g



0 dB = 0.050mW/g

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### right\_ch23\_tilted

**DUT: USB7100; Type: 2.4GHz Cordless VoIP Phone; Serial: USB7100, USB711**

Communication System: 2.4GHz; Frequency: 2441.66 MHz; Duty Cycle: 1:24

Medium: Head 2450 MHz Medium parameters used (interpolated):  $f = 2441.66$  MHz;  $\sigma = 1.87$  mho/m;  $\epsilon_r = 37.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1711; ConvF(4.6, 4.6, 4.6); Calibrated: 12/16/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 1/12/2004
- Phantom: SAM 12; Type: TP-1217; Serial: QD000P40CA
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

**right\_ch23\_tilted/Area Scan (71x81x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.046 mW/g

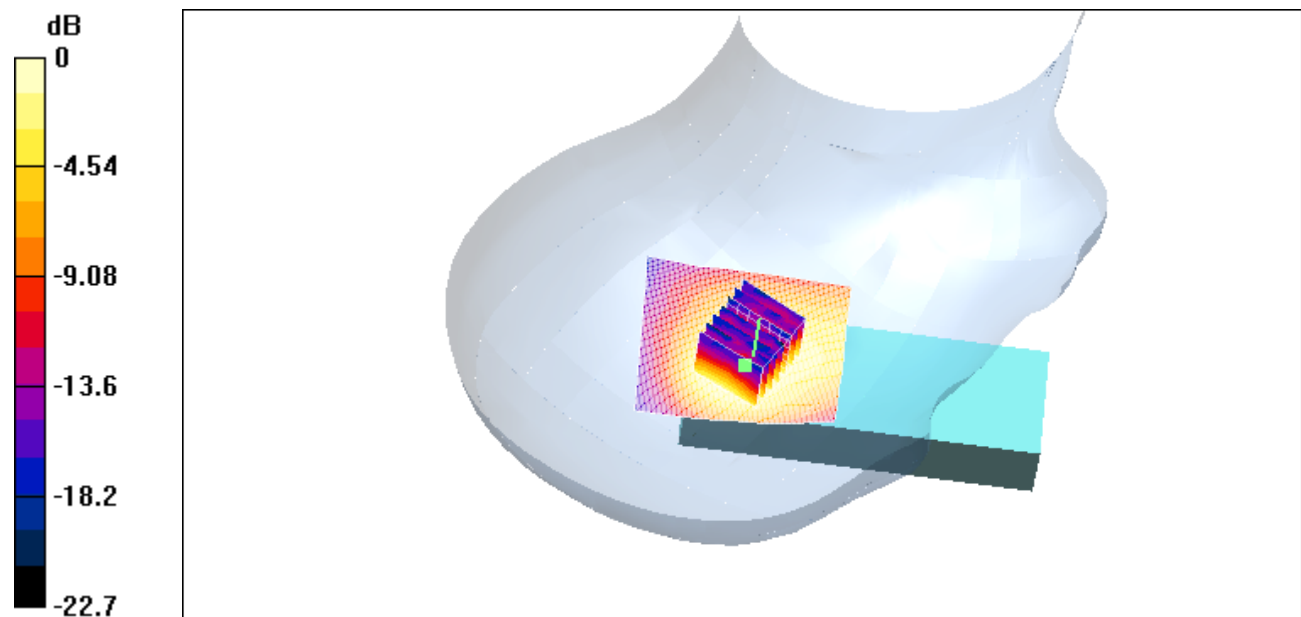
**right\_ch23\_tilted/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.34 V/m; Power Drift = -0.1 dB

Peak SAR (extrapolated) = 0.080 W/kg

**SAR(1 g) = 0.042 mW/g; SAR(10 g) = 0.023 mW/g**

Maximum value of SAR (measured) = 0.046 mW/g



0 dB = 0.046mW/g

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### right\_ch46\_tilted

**DUT: USB7100; Type: 2.4GHz Cordless VoIP Phone; Serial: USB7100, USB711**

Communication System: 2.4GHz; Frequency: 2481.41 MHz; Duty Cycle: 1:24

Medium: Head 2450 MHz Medium parameters used (interpolated):  $f = 2481.41$  MHz;  $\sigma = 1.88$  mho/m;  $\epsilon_r = 37.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1711; ConvF(4.6, 4.6, 4.6); Calibrated: 12/16/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 1/12/2004
- Phantom: SAM 12; Type: TP-1217; Serial: QD000P40CA
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

**right\_ch46\_tilted/Area Scan (71x81x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.042 mW/g

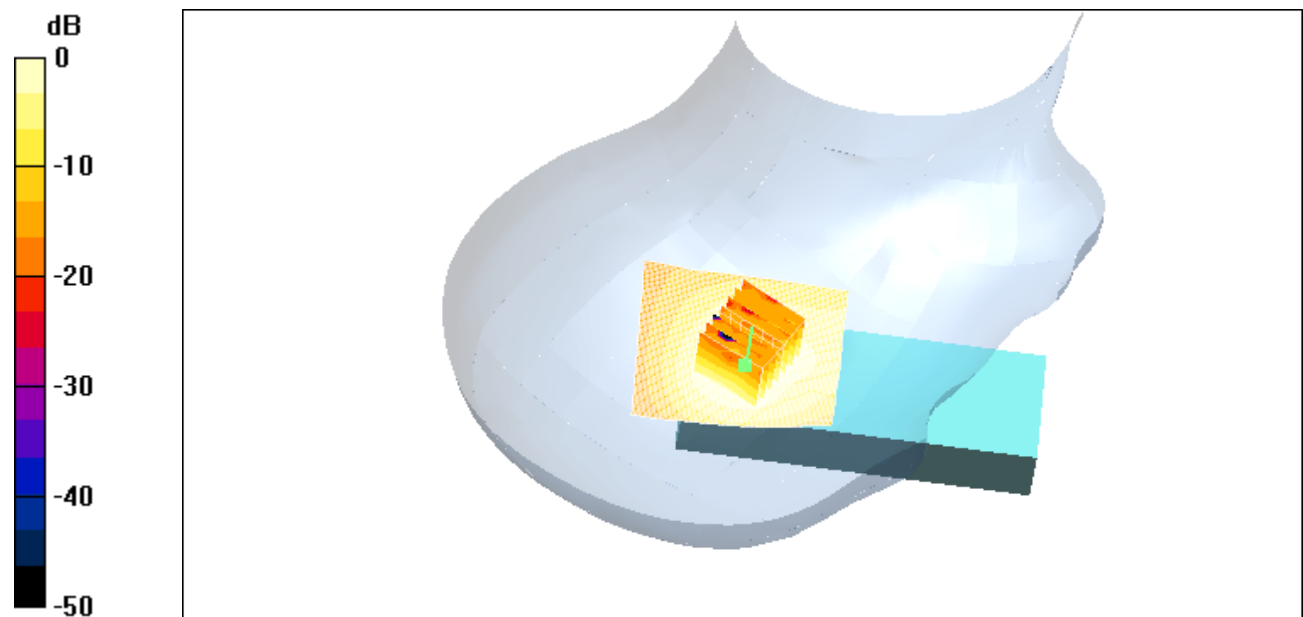
**right\_ch46\_tilted/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.97 V/m; Power Drift = -0.0 dB

Peak SAR (extrapolated) = 0.077 W/kg

**SAR(1 g) = 0.039 mW/g; SAR(10 g) = 0.021 mW/g**

Maximum value of SAR (measured) = 0.042 mW/g



0 dB = 0.042mW/g

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## flat\_back\_ch0

**DUT: USB7100; Type: 2.4GHz Cordless VoIP Phone; Serial: USB7100, USB711**

Communication System: 2.4GHz; Frequency: 2401.92 MHz; Duty Cycle: 1:24

Medium: Muscle 2450 MHz Medium parameters used (interpolated):  $f = 2401.92$  MHz;  $\sigma = 1.96$  mho/m;  $\epsilon_r = 52.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1711; ConvF(4.1, 4.1, 4.1); Calibrated: 12/16/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 1/12/2004
- Phantom: SAM 12; Type: TP-1217; Serial: QD000P40CA
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

**flat\_back\_ch0/Area Scan (71x131x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.067 mW/g

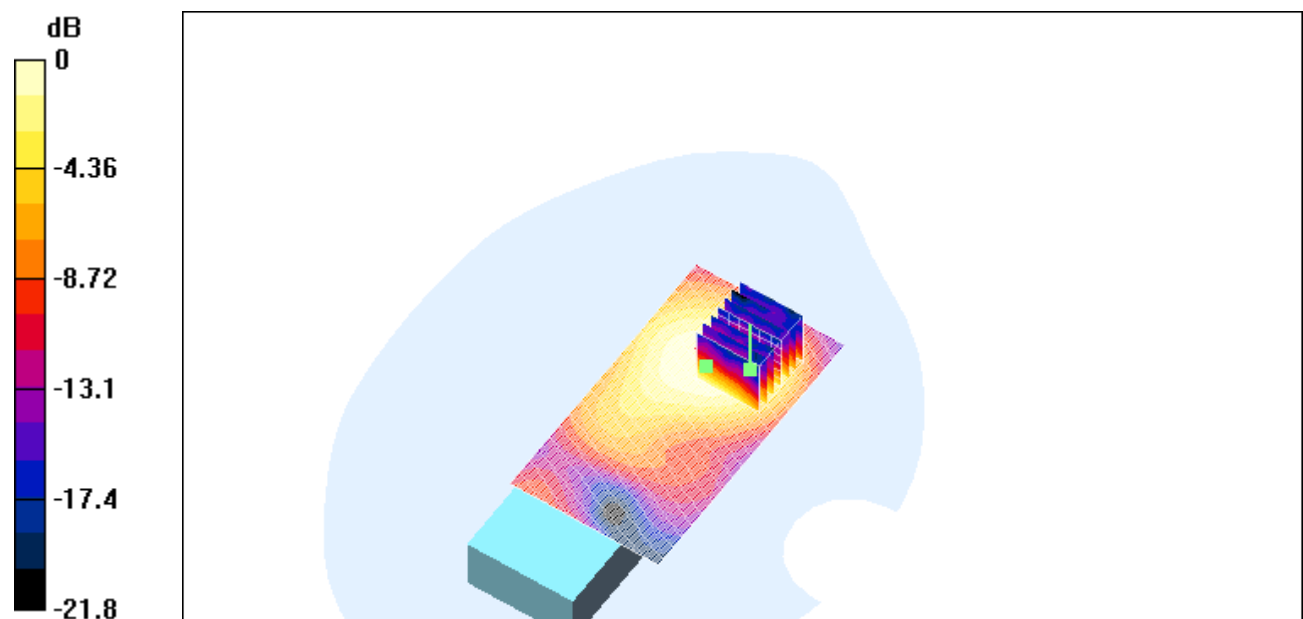
**flat\_back\_ch0/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.39 V/m; Power Drift = -0.2 dB

Peak SAR (extrapolated) = 0.142 W/kg

**SAR(1 g) = 0.062 mW/g; SAR(10 g) = 0.032 mW/g**

Maximum value of SAR (measured) = 0.066 mW/g



0 dB = 0.066mW/g

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### flat\_back\_ch23

**DUT: USB7100; Type: 2.4GHz Cordless VoIP Phone; Serial: USB7100, USB711**

Communication System: 2.4GHz; Frequency: 2441.66 MHz; Duty Cycle: 1:24

Medium: Muscle 2450 MHz Medium parameters used (interpolated):  $f = 2441.66$  MHz;  $\sigma = 2$  mho/m;  $\epsilon_r = 52.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1711; ConvF(4.1, 4.1, 4.1); Calibrated: 12/16/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 1/12/2004
- Phantom: SAM 12; Type: TP-1217; Serial: QD000P40CA
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

**flat\_back\_ch23/Area Scan (91x131x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.069 mW/g

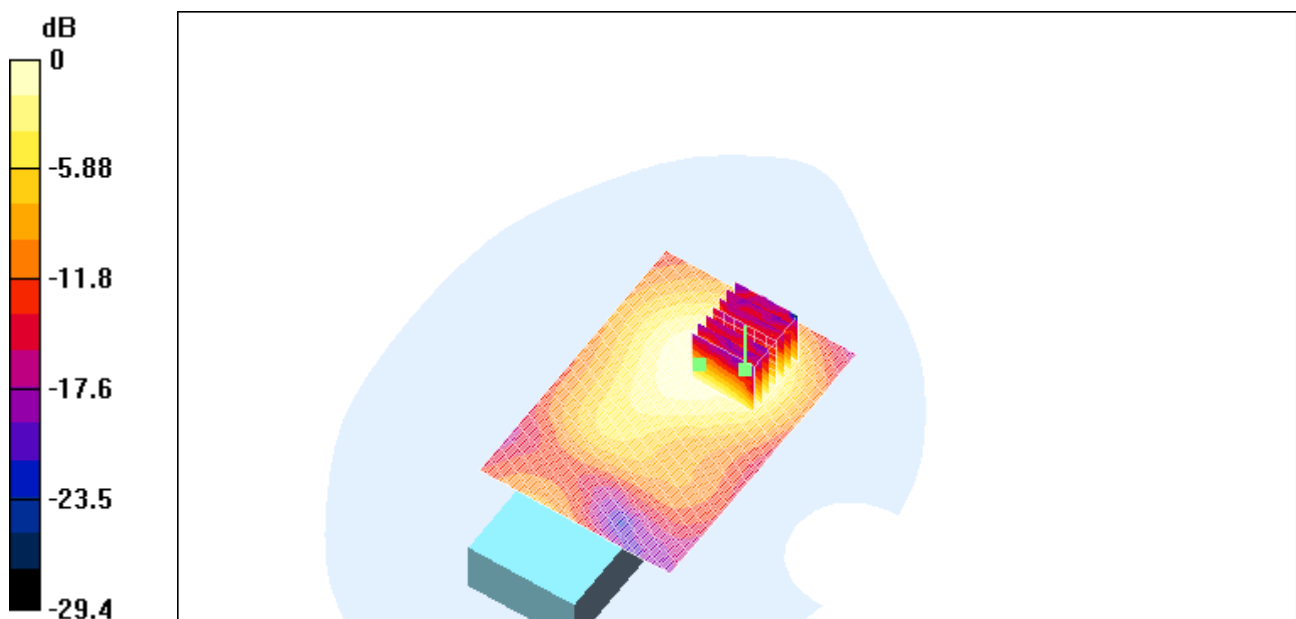
**flat\_back\_ch23/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.3 V/m; Power Drift = -0.1 dB

Peak SAR (extrapolated) = 0.146 W/kg

**SAR(1 g) = 0.062 mW/g; SAR(10 g) = 0.032 mW/g**

Maximum value of SAR (measured) = 0.067 mW/g



0 dB = 0.067mW/g



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### flat\_back\_ch46

**DUT: USB7100; Type: 2.4GHz Cordless VoIP Phone; Serial: USB7100, USB711**

Communication System: 2.4GHz; Frequency: 2481.41 MHz; Duty Cycle: 1:24

Medium: Muscle 2450 MHz Medium parameters used (interpolated):  $f = 2481.41$  MHz;  $\sigma = 2.05$  mho/m;  $\epsilon_r = 52.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1711; ConvF(4.1, 4.1, 4.1); Calibrated: 12/16/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 1/12/2004
- Phantom: SAM 12; Type: TP-1217; Serial: QD000P40CA
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

**flat\_back\_ch46/Area Scan (91x131x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.068 mW/g

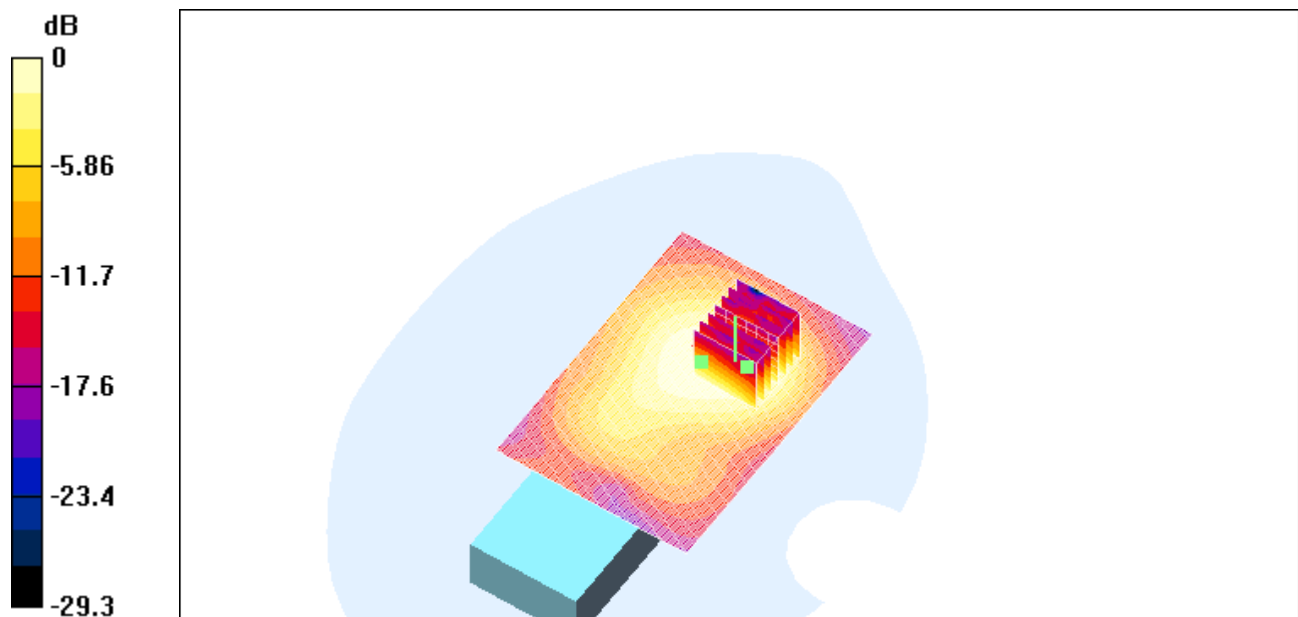
**flat\_back\_ch46/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.25 V/m; Power Drift = -0.1 dB

Peak SAR (extrapolated) = 0.154 W/kg

**SAR(1 g) = 0.063 mW/g; SAR(10 g) = 0.033 mW/g**

Maximum value of SAR (measured) = 0.066 mW/g



0 dB = 0.066mW/g

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## z\_axis\_scan

**DUT: USB7100; Type: 2.4GHz Cordless VoIP Phone; Serial: USB7100, USB711**

Communication System: 2.4GHz; Frequency: 2401.92 MHz; Duty Cycle: 1:24

Medium: Head 2450 MHz Medium parameters used (interpolated):  $f = 2401.92$  MHz;  $\sigma = 1.83$  mho/m;  $\epsilon_r = 38$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1711; ConvF(4.6, 4.6, 4.6); Calibrated: 12/16/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 1/12/2004
- Phantom: SAM 12; Type: TP-1217; Serial: QD000P40CA
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

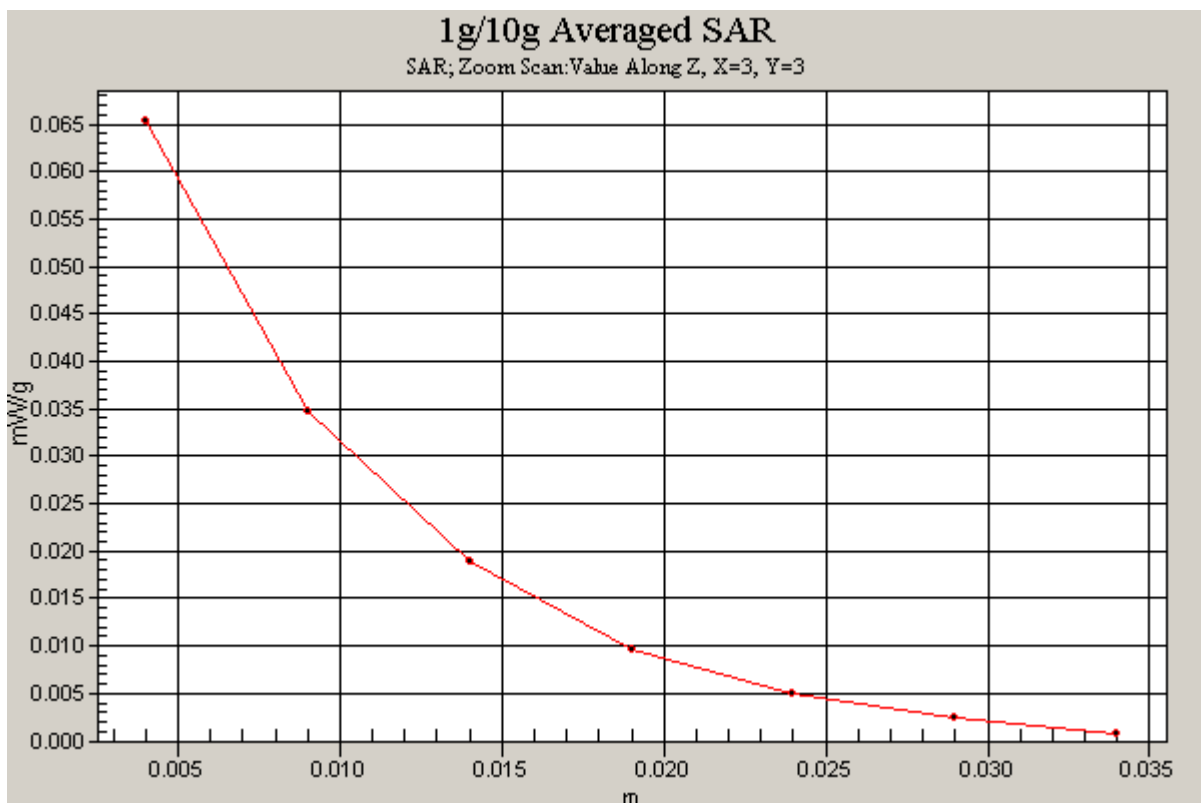
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.38 V/m; Power Drift = -0.0 dB

Peak SAR (extrapolated) = 0.112 W/kg

**SAR(1 g) = 0.060 mW/g; SAR(10 g) = 0.032 mW/g**

**Area Scan (71x131x1):** Measurement grid: dx=10mm, dy=10mm





## Appendix C

### Pictures

Appendix

C. Pictures





