

## APPENDIX B: SAR DIPOLE VERIFICATION PLOTS

# ELEMENT

**DUT: Dipole 750.0 MHz; Type: D750V3; Serial: 1097**

Communication System: UID: 0, CW; Frequency: 750.0 MHz

Medium: 750 Head; Medium parameters used:

$f = 750.0$  MHz;  $\text{cond} = 0.874$  S/m;  $\text{perm} = 40.4$ ;  $\text{density} = 1000$  kg/m<sup>3</sup>

Phantom Section: Flat; Space: 15 mm

Test Date: 08/03/2022; Ambient Temp: 22.3°C; Tissue Temp: 21.8°C

Probe: EX3DV4 - SN7532; ConvF:(10.95,10.95,10.95); Calibrated: 2022-04-22

Sensor-Surface: 1.4mm (VMS + 6p)

Electronics: DAE4 Sn501; Calibrated: 2022-04-13

Phantom: Twin-SAM V8.0; Serial: 1357

Measurement SW: DASY Module SAR V16.0.2.136

## 750 MHz System Verification at 23 dBm

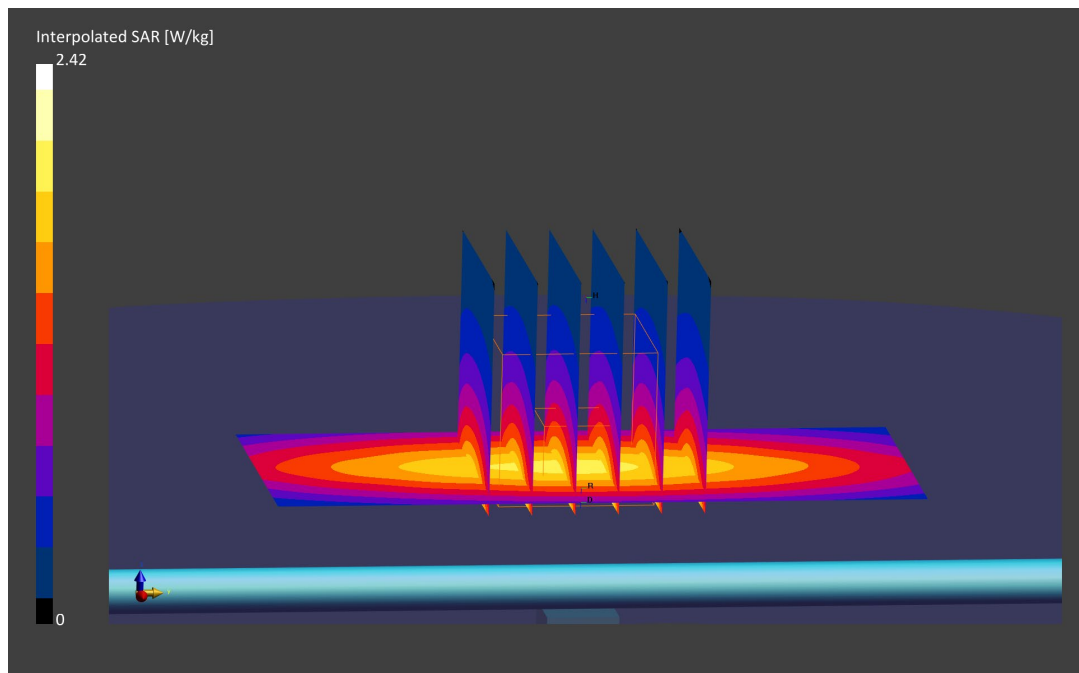
**Area Scan (40.0 x 90.0):** Measurement grid:  $dx=10.0$  mm,  $dy=15.0$  mm

**Zoom Scan (30.0 x 30.0 x 30.0):** Measurement grid:  $dx=6.0$  mm,  $dy=6.0$  mm,  $dz=1.5$  mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 2.42 W/kg

**SAR(1 g) = 1.61 W/kg; SAR(10 g) = 1.07 W/kg**

Deviation (1 g) = -1.95%; Deviation (10 g) = 0.19%



# ELEMENT

**DUT: Dipole 750.0 MHz; Type: D750V3; Serial: 1097**

Communication System: UID: 0, CW; Frequency: 750.0 MHz

Medium: 750 Head; Medium parameters used:

$f = 750.0$  MHz;  $\text{cond} = 0.884$  S/m;  $\text{perm} = 42.7$ ;  $\text{density} = 1000$  kg/m<sup>3</sup>

Phantom Section: Flat; Space: 15 mm

Test Date: 08/05/2022; Ambient Temp: 22.1°C; Tissue Temp: 23.0°C

Probe: EX3DV4 - SN7532; ConvF:(10.95,10.95,10.95); Calibrated: 2022-04-22

Sensor-Surface: 1.4mm (VMS + 6p)

Electronics: DAE4 Sn501; Calibrated: 2022-04-13

Phantom: Twin-SAM V8.0; Serial: 1357

Measurement SW: DASY Module SAR V16.0.2.136

## 750 MHz System Verification at 23 dBm

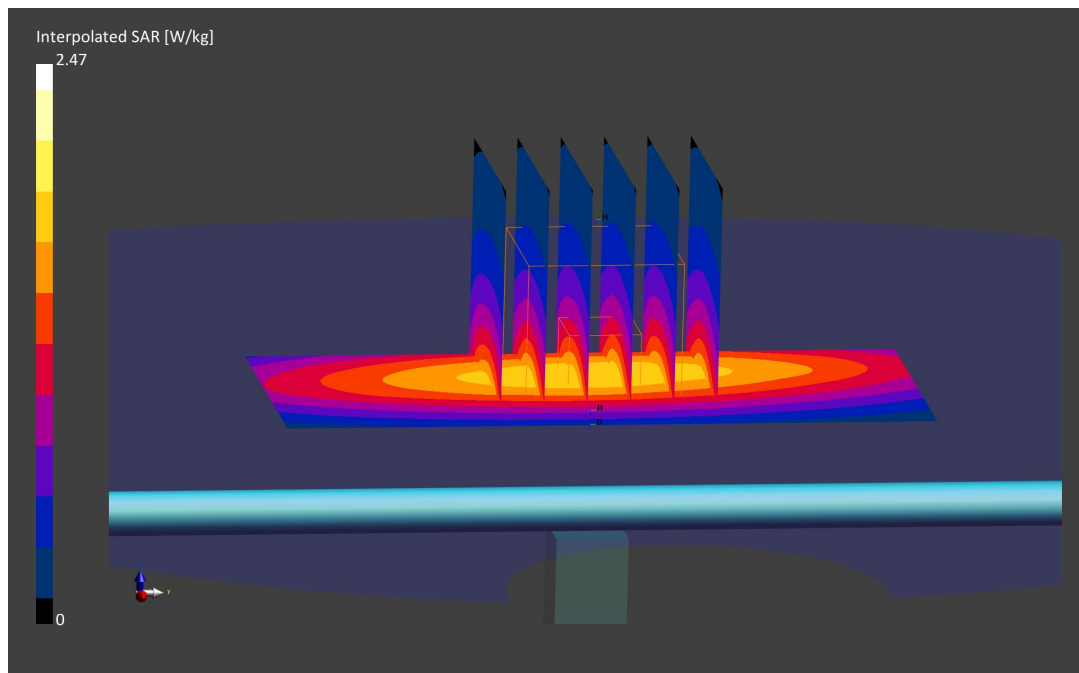
**Area Scan (40.0 x 90.0):** Measurement grid:  $dx=10.0$  mm,  $dy=15.0$  mm

**Zoom Scan (30.0 x 30.0 x 30.0):** Measurement grid:  $dx=6.0$  mm,  $dy=6.0$  mm,  $dz=1.5$  mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 2.47 W/kg

**SAR(10 g) = 1.06 W/kg**

Deviation (10 g) = -0.75%



# ELEMENT

**DUT: Dipole 750.0 MHz; Type: D750V3; Serial: 1097**

Communication System: UID: 0, CW; Frequency: 750.0 MHz

Medium: 750 Head; Medium parameters used:

f = 750.0 MHz; cond = 0.906 S/m; perm = 42.0; density = 1000 kg/m<sup>3</sup>

Phantom Section: Flat; Space: 15 mm

Test Date: 08/07/2022; Ambient Temp: 21.9°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN7532; ConvF:(10.95,10.95,10.95); Calibrated: 2022-04-22

Sensor-Surface: 1.4mm (VMS + 6p)

Electronics: DAE4 Sn501; Calibrated: 2022-04-13

Phantom: Twin-SAM V8.0; Serial: 1357

Measurement SW: DASY Module SAR V16.0.2.136

## 750 MHz System Verification at 23 dBm

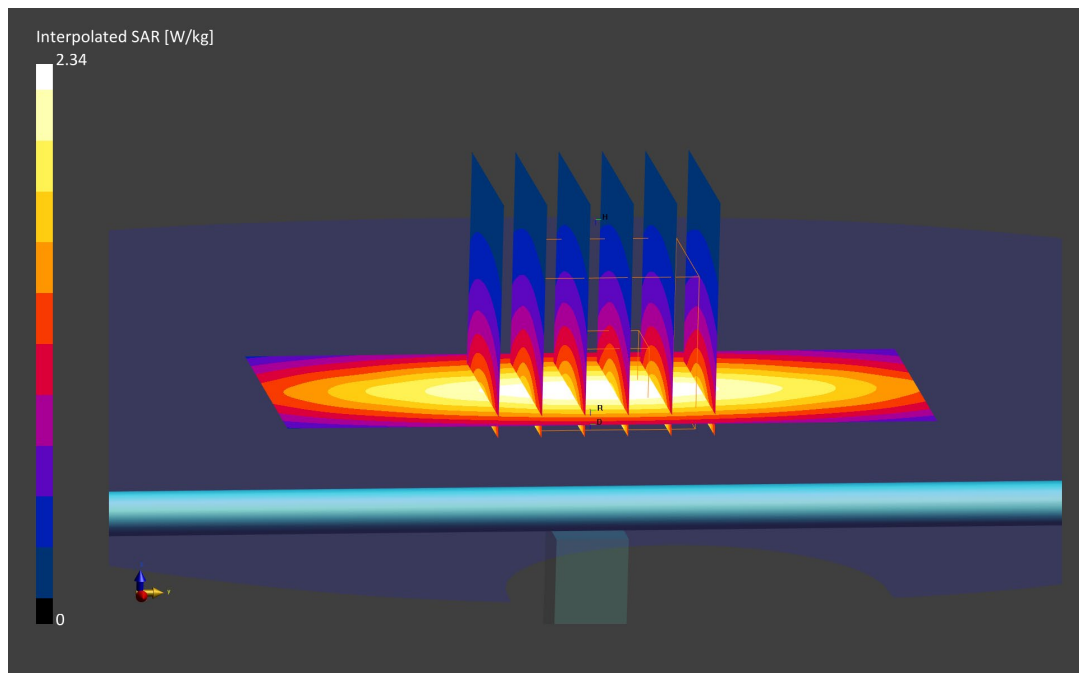
**Area Scan (40.0 x 90.0):** Measurement grid: dx=10.0 mm, dy=15.0 mm

**Zoom Scan (30.0 x 30.0 x 30.0):** Measurement grid: dx=6.0 mm, dy=6.0 mm, dz=1.5 mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 2.34 W/kg

**SAR(1 g) = 1.56 W/kg;**

Deviation (1 g) = -4.99%



# ELEMENT

**DUT: Dipole 750.0 MHz; Type: D750V3; Serial: 1057**

Communication System: UID: 0, CW; Frequency: 750.0 MHz

Medium: 750 Head; Medium parameters used:

$f = 750.0$  MHz;  $\text{cond} = 0.918$  S/m;  $\text{perm} = 41.3$ ;  $\text{density} = 1000$  kg/m<sup>3</sup>

Phantom Section: Flat; Space: 15 mm

Test Date: 08/08/2022; Ambient Temp: 22.5°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN7499; ConvF:(10.23,10.23,10.23); Calibrated: 2022-04-19

Sensor-Surface: 1.4mm (VMS + 6p)

Electronics: DAE4 Sn1465; Calibrated: 2022-04-13

Phantom: Twin-SAM V8.0; Serial: 1935

Measurement SW: DASY Module SAR V16.0.2.136

## 750 MHz System Verification at 23 dBm

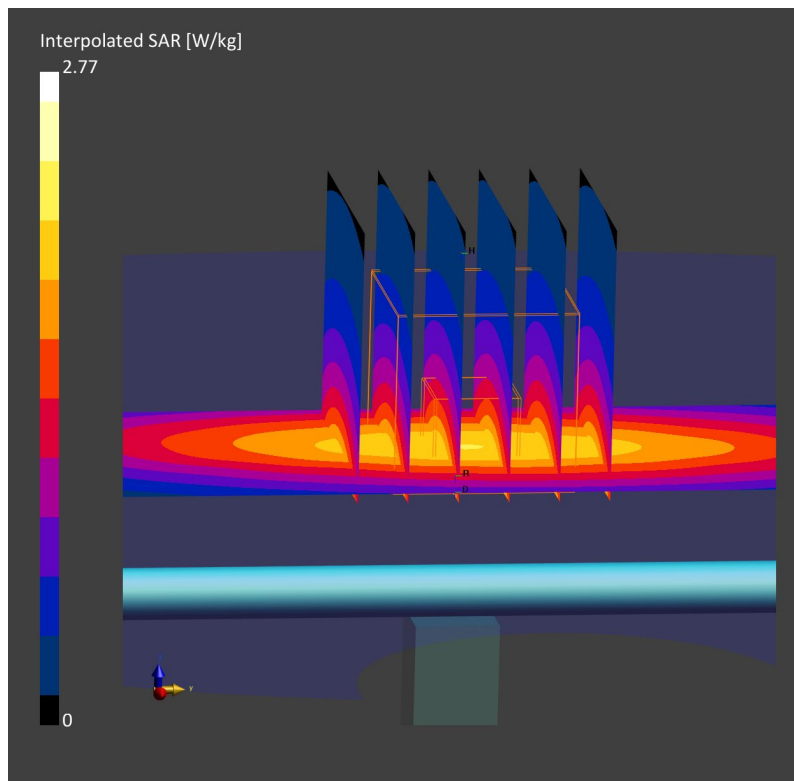
**Area Scan (40.0 x 90.0):** Measurement grid:  $dx=10.0$  mm,  $dy=15.0$  mm

**Zoom Scan (30.0 x 30.0 x 30.0):** Measurement grid:  $dx=6.0$  mm,  $dy=6.0$  mm,  $dz=1.5$  mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 2.77 W/kg

**SAR(10 g) = 1.17 W/kg**

Deviation (10 g) = 4.84%



# ELEMENT

**DUT: Dipole 835.0 MHz; Type: D835V2; Serial: 460**

Communication System: UID: 0, CW; Frequency: 835.0 MHz

Medium: 835 Head; Medium parameters used:

$f = 835.0$  MHz;  $\text{cond} = 0.908$  S/m;  $\text{perm} = 41.5$ ;  $\text{density} = 1000$  kg/m<sup>3</sup>

Phantom Section: Flat; Space: 15 mm

Test Date: 07/29/2022; Ambient Temp: 20.7°C; Tissue Temp: 18.7°C

Probe: EX3DV4 - SN7490; ConvF:(10.03,10.03,10.03); Calibrated: 2021-12-10

Sensor-Surface: 1.4mm (VMS + 6p)

Electronics: DAE4 Sn1333; Calibrated: 2021-10-20

Phantom: Twin-SAM V8.0; Serial: 1936

Measurement SW: DASY Module SAR V16.0.2.136

## 835 MHz System Verification at 23 dBm

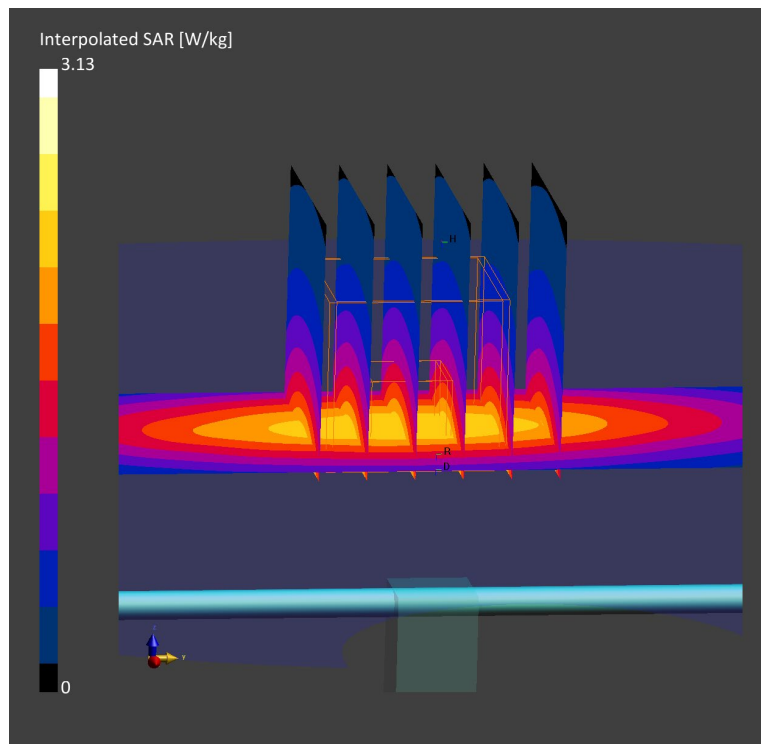
**Area Scan (40.0 x 90.0):** Measurement grid:  $dx=10.0$  mm,  $dy=15.0$  mm

**Zoom Scan (30.0 x 30.0 x 30.0):** Measurement grid:  $dx=6.0$  mm,  $dy=6.0$  mm,  $dz=1.5$  mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 3.13 W/kg

**SAR(1 g) = 2.02 W/kg**

Deviation (1 g) = 3.91%



# ELEMENT

**DUT: Dipole 835.0 MHz; Type: D835V2; Serial: 460**

Communication System: UID: 0, CW; Frequency: 835.0 MHz

Medium: 835 Head; Medium parameters used:

$f = 835.0$  MHz;  $\text{cond} = 0.905$  S/m;  $\text{perm} = 41.0$ ;  $\text{density} = 1000$  kg/m<sup>3</sup>

Phantom Section: Flat; Space: 15 mm

Test Date: 07/30/2022; Ambient Temp: 20.1°C; Tissue Temp: 19.8°C

Probe: EX3DV4 - SN7490; ConvF:(10.03,10.03,10.03); Calibrated: 2021-12-10

Sensor-Surface: 1.4mm (VMS + 6p)

Electronics: DAE4 Sn1333; Calibrated: 2021-10-20

Phantom: Twin-SAM V8.0; Serial: 1936

Measurement SW: DASY Module SAR V16.0.2.136

## 835 MHz System Verification at 23 dBm

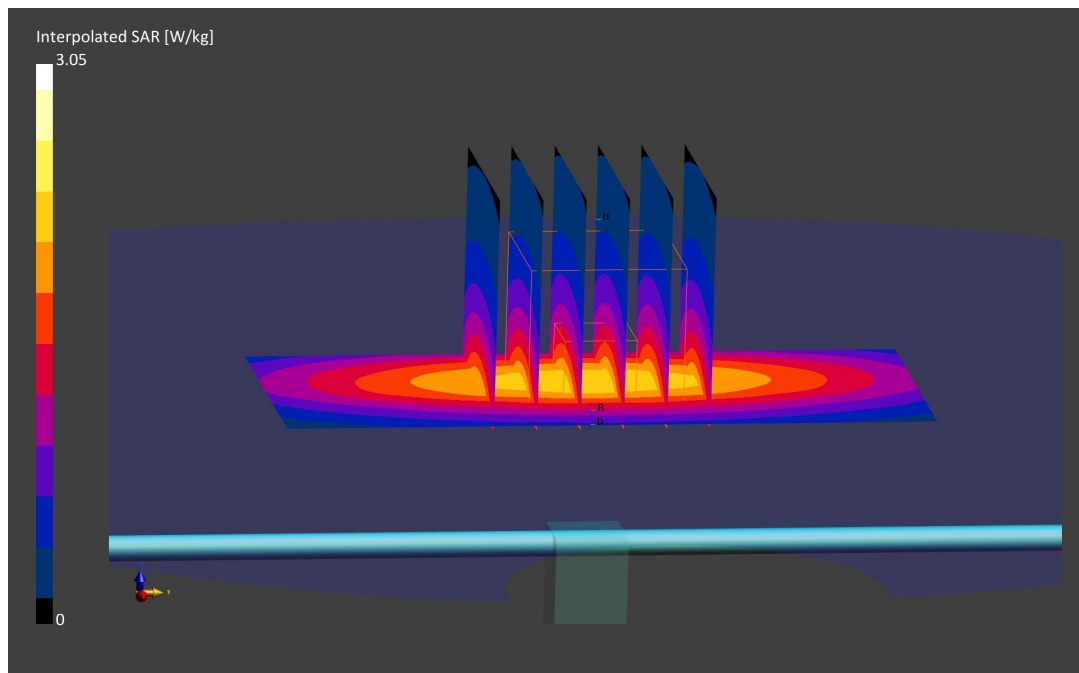
**Area Scan (40.0 x 90.0):** Measurement grid:  $dx=10.0$  mm,  $dy=15.0$  mm

**Zoom Scan (30.0 x 30.0 x 30.0):** Measurement grid:  $dx=6.0$  mm,  $dy=6.0$  mm,  $dz=1.5$  mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 3.05 W/kg

**SAR(10 g) = 1.27 W/kg**

Deviation (10 g) = 0.16%



# ELEMENT

**DUT: Dipole 850.0 MHz; Type: D850V2; Serial: 1009**

Communication System: UID: 0, CW; Frequency: 850.0 MHz

Medium: 835 Head; Medium parameters used:

$f = 850.0$  MHz;  $\text{cond} = 0.951$  S/m;  $\text{perm} = 41.2$ ;  $\text{density} = 1000$  kg/m<sup>3</sup>

Phantom Section: Flat; Space: 15 mm

Test Date: 08/03/2022; Ambient Temp: 20.4°C; Tissue Temp: 18.4°C

Probe: EX3DV4 - SN7490; ConvF:(10.03,10.03,10.03); Calibrated: 2021-12-10

Sensor-Surface: 1.4mm (VMS + 6p)

Electronics: DAE4 Sn1333; Calibrated: 2021-10-20

Phantom: Twin-SAM V8.0; Serial: 1936

Measurement SW: DASY Module SAR V16.0.2.136

## 850 MHz System Verification at 23 dBm

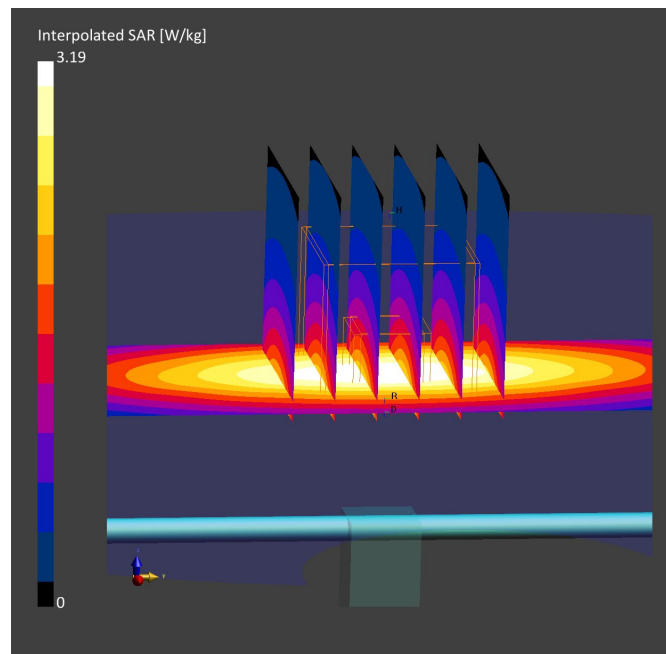
**Area Scan (40.0 x 90.0):** Measurement grid:  $dx=10.0$  mm,  $dy=15.0$  mm

**Zoom Scan (30.0 x 30.0 x 30.0):** Measurement grid:  $dx=6.0$  mm,  $dy=6.0$  mm,  $dz=1.5$  mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 3.19 W/kg

**SAR(1 g) = 2.05 W/kg; SAR(10 g) = 1.33 W/kg**

Deviation (1 g) = 4.59%; Deviation (10 g) = 5.39%



# ELEMENT

**DUT: Dipole 835.0 MHz; Type: D835V2 - SN4d108**

Communication System: UID: 0, CW; Frequency: 835.0 MHz

Medium: 835 Head; Medium parameters used:

f = 835.0 MHz; cond = 0.885 S/m; perm = 40.2; density = 1000 kg/m<sup>3</sup>

Phantom Section: Flat; Space: 15 mm

Test Date: 08/17/2022; Ambient Temp: 20.2°C; Tissue Temp: 18.6°C

Probe: EX3DV4 - SN7499; ConvF:(9.94,9.94,9.94); Calibrated: 2022-04-19

Sensor-Surface: 1.4mm (VMS + 6p)

Electronics: DAE4 Sn1465; Calibrated: 2022-04-13

Phantom: Twin-SAM V8.0; Serial: 1935

Measurement SW: DASY Module SAR V16.0.2.136

## 835 MHz System Verification at 23 dBm

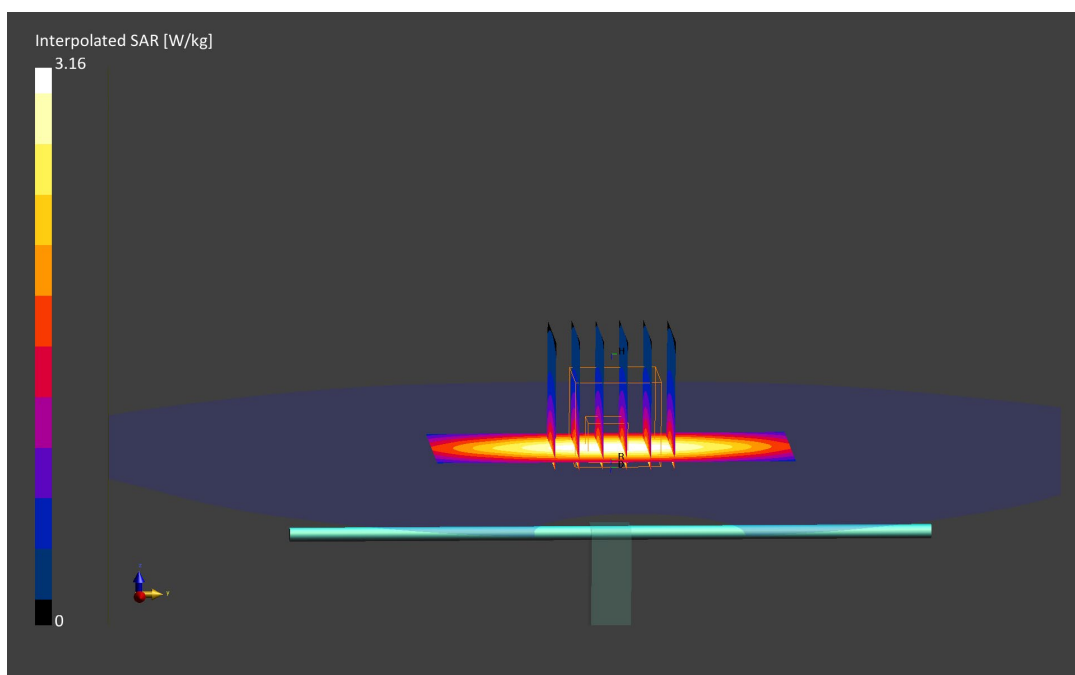
**Area Scan (40.0 x 90.0):** Measurement grid: dx=10.0 mm, dy=15.0 mm

**Zoom Scan (30.0 x 30.0 x 30.0):** Measurement grid: dx=6.0 mm, dy=6.0 mm, dz=1.5 mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 3.16 W/kg

**SAR(10 g) = 1.31 W/kg**

Deviation (10 g) = 3.48%;



# ELEMENT

**DUT: Dipole 1750.0 MHz; Type: D1750V2; Serial: 1104**

Communication System: UID: 0, CW; Frequency: 1750.0 MHz

Medium: 1750 Head; Medium parameters used:

f = 1750.0 MHz; cond = 1.32 S/m; perm = 38.3; density = 1000 kg/m<sup>3</sup>

Phantom Section: Flat; Space: 10 mm

Test Date: 06/13/2022; Ambient Temp: 21.2°C; Tissue Temp: 22.0°C

Probe: EX3DV4 - SN7639; ConvF:(9.33,9.33,9.33); Calibrated: 2021-11-16

Sensor-Surface: 1.4mm (VMS + 6p)

Electronics: DAE4 Sn1646; Calibrated: 2021-11-11

Phantom: Twin-SAM V8.0; Serial: 1736

Measurement SW: DASY Module SAR V16.0.2.136

## 1750 MHz System Verification at 20 dBm

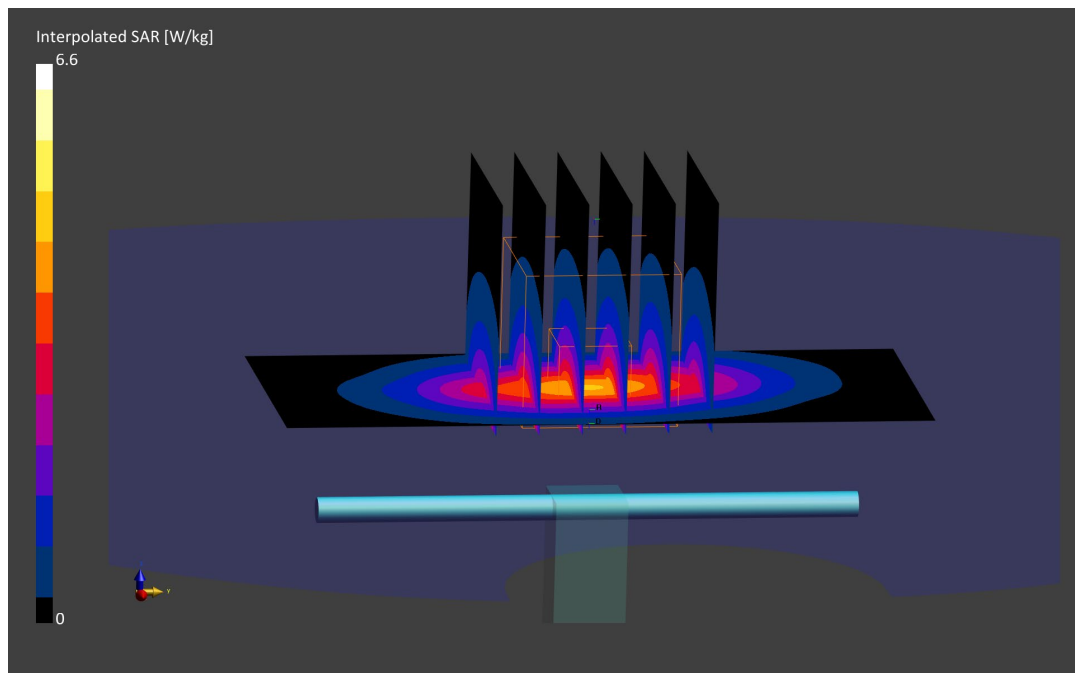
**Area Scan (40.0 x 90.0):** Measurement grid: dx=10.0 mm, dy=15.0 mm

**Zoom Scan (30.0 x 30.0 x 30.0):** Measurement grid: dx=6.0 mm, dy=6.0 mm, dz=1.5 mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 6.60 W/kg

**SAR(1 g) = 3.45 W/kg;**

Deviation (1 g) = -3.36%



# ELEMENT

**DUT: Dipole 1750.0 MHz; Type: D1750V2; Serial: 1104**

Communication System: UID: 0, CW; Frequency: 1750.0 MHz

Medium: 1750 Head; Medium parameters used:

f = 1750.0 MHz; cond = 1.34 S/m; perm = 38.8; density = 1000 kg/m<sup>3</sup>

Phantom Section: Flat; Space: 10 mm

Test Date: 06/15/2022; Ambient Temp: 21.9°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN7639; ConvF:(9.33,9.33,9.33); Calibrated: 2021-11-16

Sensor-Surface: 1.4mm (VMS + 6p)

Electronics: DAE4 Sn1646; Calibrated: 2021-11-11

Phantom: Twin-SAM V8.0; Serial: 1736

Measurement SW: DASY Module SAR V16.0.2.136

## 1750 MHz System Verification at 20 dBm

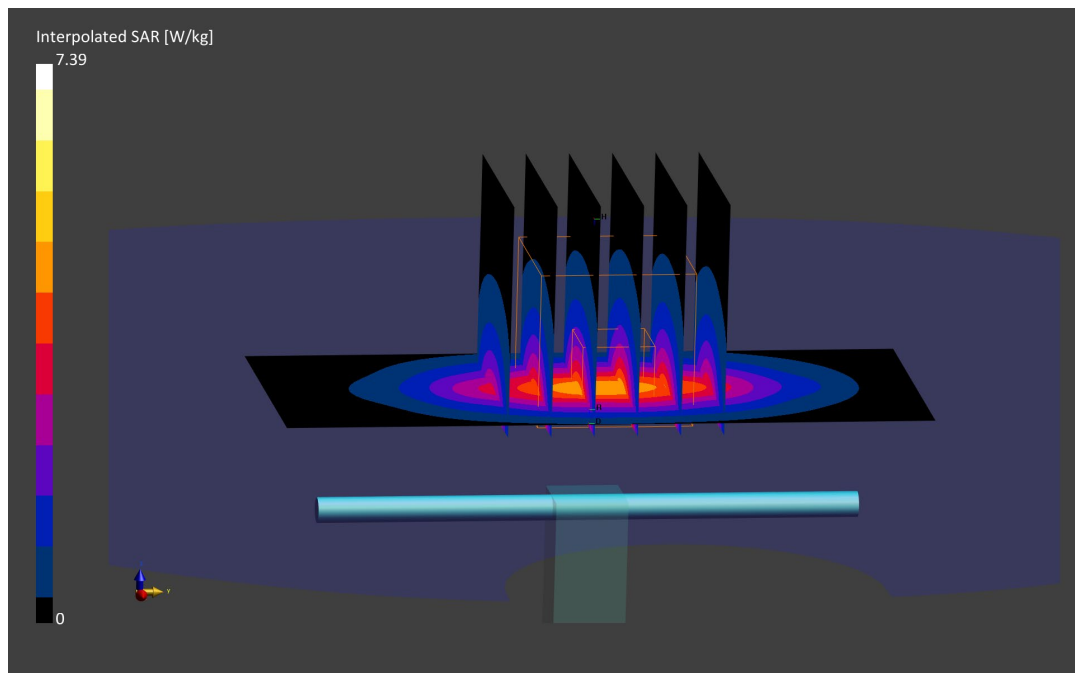
**Area Scan (40.0 x 90.0):** Measurement grid: dx=10.0 mm, dy=15.0 mm

**Zoom Scan (30.0 x 30.0 x 30.0):** Measurement grid: dx=6.0 mm, dy=6.0 mm, dz=1.5 mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 7.39 W/kg

**SAR(10 g) = 2.03 W/kg**

Deviation (10 g) = 7.98%



# ELEMENT

**DUT: Dipole 1750.0 MHz; Type: D1750V2; Serial: 1083**

Communication System: UID: 0, CW; Frequency: 1750.0 MHz

Medium: 1750 Head; Medium parameters used:

$f = 1750.0$  MHz;  $\text{cond} = 1.36$  S/m;  $\text{perm} = 38.9$ ;  $\text{density} = 1000$  kg/m<sup>3</sup>

Phantom Section: Flat; Space: 10 mm

Test Date: 06/17/2022; Ambient Temp: 23.4°C; Tissue Temp: 19.8°C

Probe: EX3DV4 - SN7532; ConvF:(8.79,8.79,8.79); Calibrated: 2022-04-22

Sensor-Surface: 1.4mm (VMS + 6p)

Electronics: DAE4 Sn501; Calibrated: 2022-04-13

Phantom: Twin-SAM V8.0; Serial: 1357

Measurement SW: DASY Module SAR V16.0.2.136

## 1750 MHz System Verification at 20 dBm

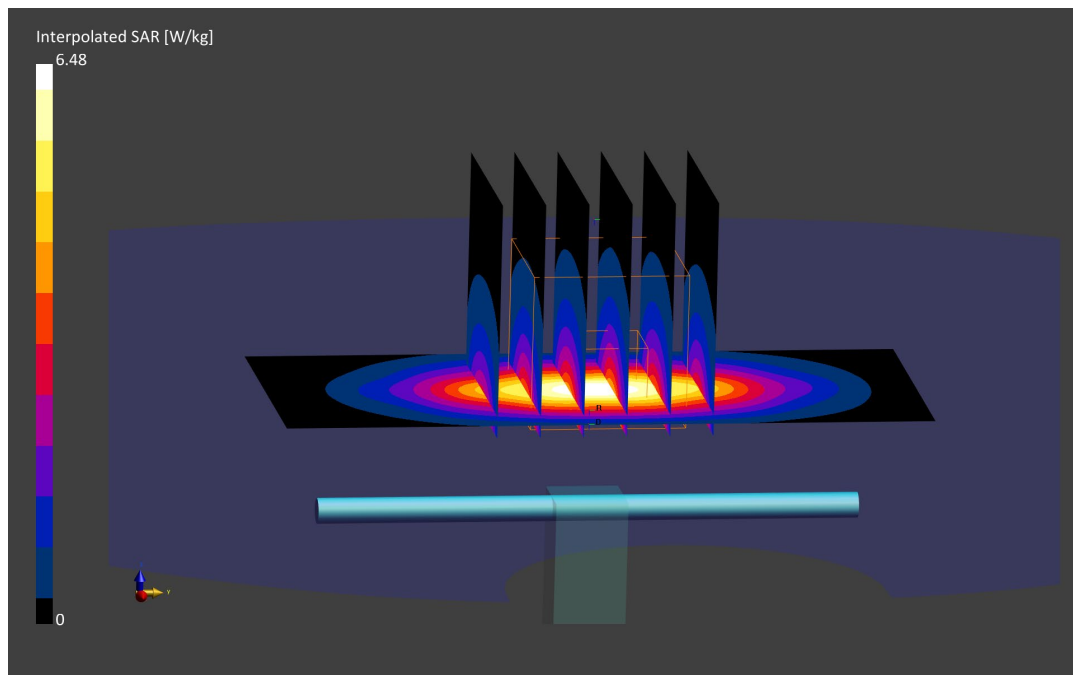
**Area Scan (40.0 x 90.0):** Measurement grid:  $dx=10.0$  mm,  $dy=15.0$  mm

**Zoom Scan (30.0 x 30.0 x 30.0):** Measurement grid:  $dx=6.0$  mm,  $dy=6.0$  mm,  $dz=1.5$  mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 6.48 W/kg

**SAR(1 g) = 3.45 W/kg; SAR(10 g) = 1.82 W/kg**

Deviation (1 g) = -5.48%; Deviation (10 g) = -5.21%



# ELEMENT

**DUT: Dipole 1900.0 MHz; Type: D1900V2; Serial: 5d030**

Communication System: UID: 0, CW; Frequency: 1900.0 MHz

Medium: 1900 Head; Medium parameters used:

$f = 1900.0$  MHz;  $\text{cond} = 1.43$  S/m;  $\text{perm} = 38.5$ ;  $\text{density} = 1000$  kg/m<sup>3</sup>

Phantom Section: Flat; Space: 10 mm

Test Date: 06/14/2022; Ambient Temp: 23.1°C; Tissue Temp: 18.1°C

Probe: EX3DV4 - SN7532; ConvF:(8.37,8.37,8.37); Calibrated: 2022-04-22

Sensor-Surface: 1.4mm (VMS + 6p)

Electronics: DAE4 Sn501; Calibrated: 2022-04-13

Phantom: Twin-SAM V8.0; Serial: 1357

Measurement SW: DASY Module SAR V16.0.2.136

## 1900 MHz System Verification at 20 dBm

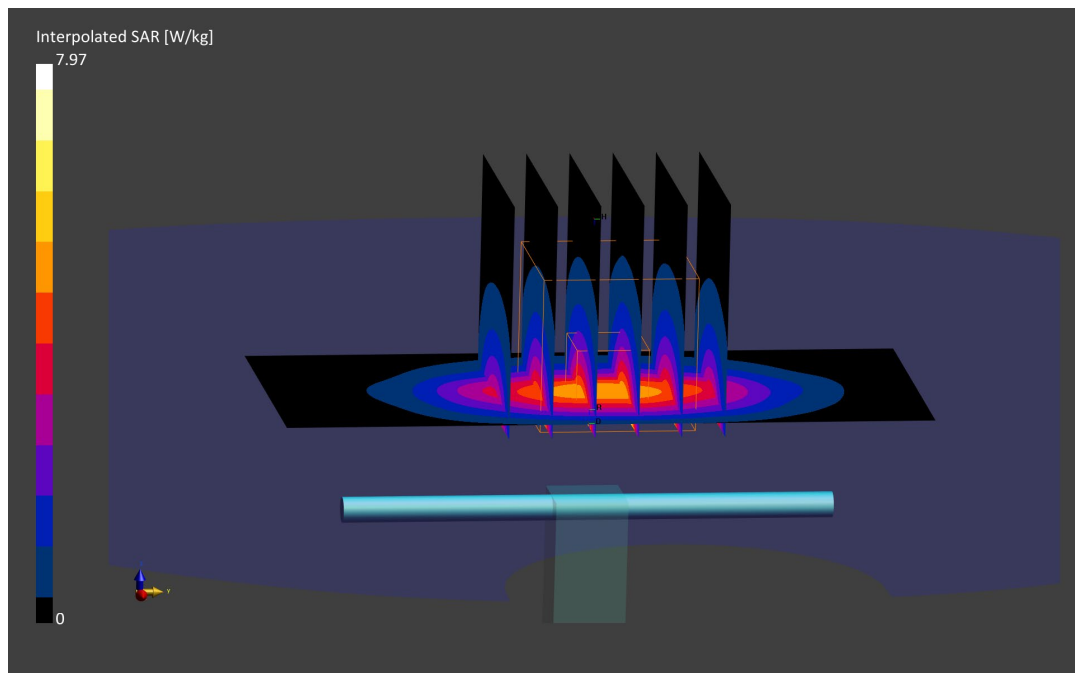
**Area Scan (40.0 x 90.0):** Measurement grid:  $\text{dx}=10.0$  mm,  $\text{dy}=15.0$  mm

**Zoom Scan (30.0 x 30.0 x 30.0):** Measurement grid:  $\text{dx}=6.0$  mm,  $\text{dy}=6.0$  mm,  $\text{dz}=1.5$  mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 7.97 W/kg

**SAR(1 g) = 4.18 W/kg; SAR(10 g) = 2.16 W/kg**

Deviation (1 g) = 5.03%; Deviation (10 g) = 5.88%



# ELEMENT

**DUT: Dipole 1900.0 MHz; Type: D1900V2; Serial: 5d181**

Communication System: UID: 0, CW; Frequency: 1900.0 MHz

Medium: 1900 Head; Medium parameters used:

f = 1900.0 MHz; cond = 1.44 S/m; perm = 40.0; density = 1000 kg/m<sup>3</sup>

Phantom Section: Flat; Space: 10 mm

Test Date: 06/15/2022; Ambient Temp: 21.9°C; Tissue Temp: 20.0°C

Probe: EX3DV4 - SN7308; ConvF:(8.27,8.27,8.27); Calibrated: 2022-02-21

Sensor-Surface: 1.4mm (VMS + 6p)

Electronics: DAE4 Sn467; Calibrated: 2022-02-24

Phantom: Twin-SAM V8.0; Serial: 2029

Measurement SW: DASY Module SAR V16.0.2.136

## 1900 MHz System Verification at 20 dBm

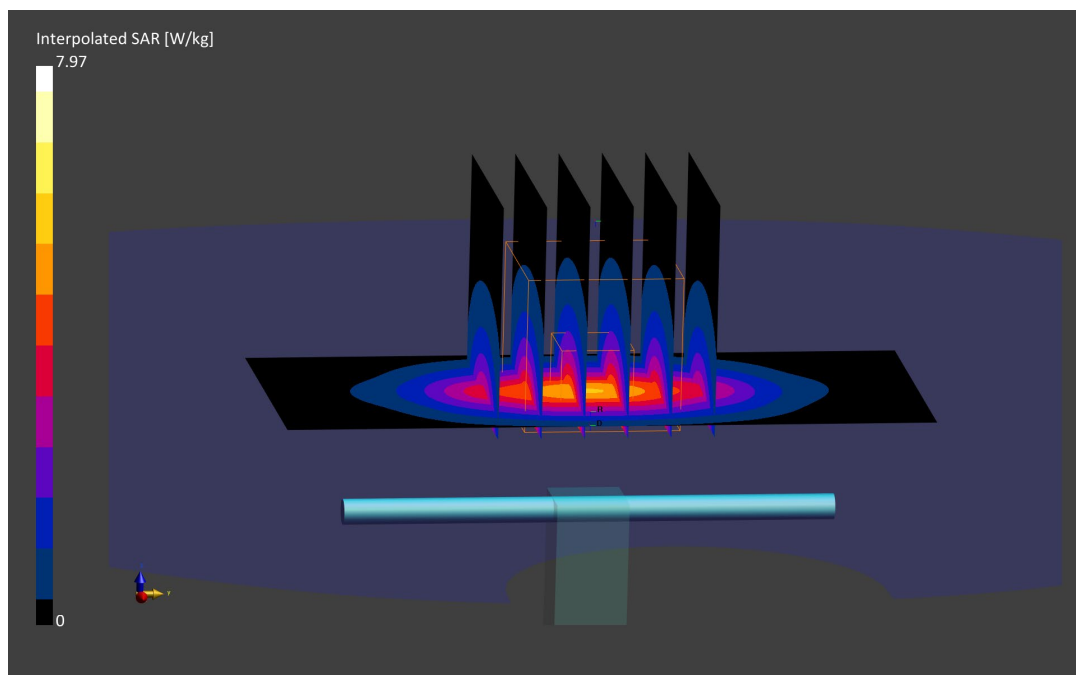
**Area Scan (40.0 x 90.0):** Measurement grid: dx=10.0 mm, dy=15.0 mm

**Zoom Scan (30.0 x 30.0 x 30.0):** Measurement grid: dx=6.0 mm, dy=6.0 mm, dz=1.5 mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 7.97 W/kg

**SAR(1 g) = 4.15 W/kg**

Deviation (1 g) = 3.49%



# ELEMENT

**DUT: Dipole 2450.0 MHz; Type: D2450V2; Serial: 855**

Communication System: UID: 0, CW; Frequency: 2450.0 MHz

Medium: 2450 Head; Medium parameters used:

$f = 2450.0$  MHz;  $\text{cond} = 1.87$  S/m;  $\text{perm} = 39.0$ ;  $\text{density} = 1000$  kg/m<sup>3</sup>

Phantom Section: Flat; Space: 10 mm

Test Date: 06/12/2022; Ambient Temp: 22.7°C; Tissue Temp: 24.7°C

Probe: EX3DV4 - SN7420; ConvF:(7.46,7.46,7.46); Calibrated: 2021-10-27

Sensor-Surface: 1.4mm (VMS + 6p)

Electronics: DAE4 Sn1237; Calibrated: 2021-11-18

Phantom: Twin-SAM V4.0; Serial: 1598

Measurement SW: DASY Module SAR V16.0.2.136

## 2450 MHz System Verification at 20 dBm

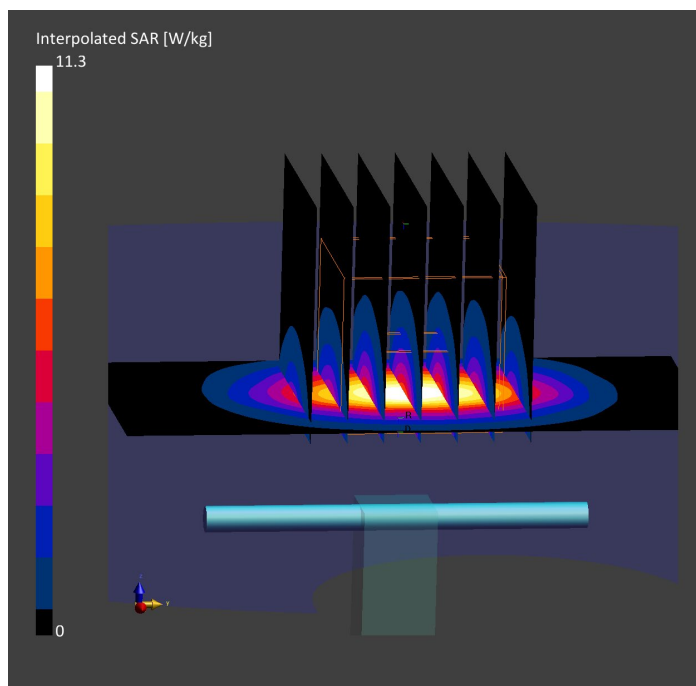
**Area Scan (40.0 x 80.0):** Measurement grid:  $dx=10.0$  mm,  $dy=10.0$  mm

**Zoom Scan (30.0 x 30.0 x 30.0):** Measurement grid:  $dx=5.0$  mm,  $dy=5.0$  mm,  $dz=1.5$  mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 11.3 W/kg

**SAR(1 g) = 5.07 W/kg; SAR(10 g) = 2.28 W/kg**

Deviation (1 g) = -3.06%; Deviation (10 g) = -6.94%



# ELEMENT

**DUT: Dipole 2450.0 MHz; Type: D2450V2; Serial: 855**

Communication System: UID: 0, CW; Frequency: 2450.0 MHz

Medium: 2450 Head; Medium parameters used:

$f = 2450.0$  MHz;  $\text{cond} = 1.89$  S/m;  $\text{perm} = 40.0$ ;  $\text{density} = 1000$  kg/m<sup>3</sup>

Phantom Section: Flat; Space: 10 mm

Test Date: 06/14/2022; Ambient Temp: 20.8°C; Tissue Temp: 23.0°C

Probe: EX3DV4 - SN7420; ConvF:(7.46,7.46,7.46); Calibrated: 2021-10-27

Sensor-Surface: 1.4mm (VMS + 6p)

Electronics: DAE4 Sn1237; Calibrated: 2021-11-18

Phantom: Twin-SAM V4.0; Serial: 1598

Measurement SW: DASY Module SAR V16.0.2.136

## 2450 MHz System Verification at 20 dBm

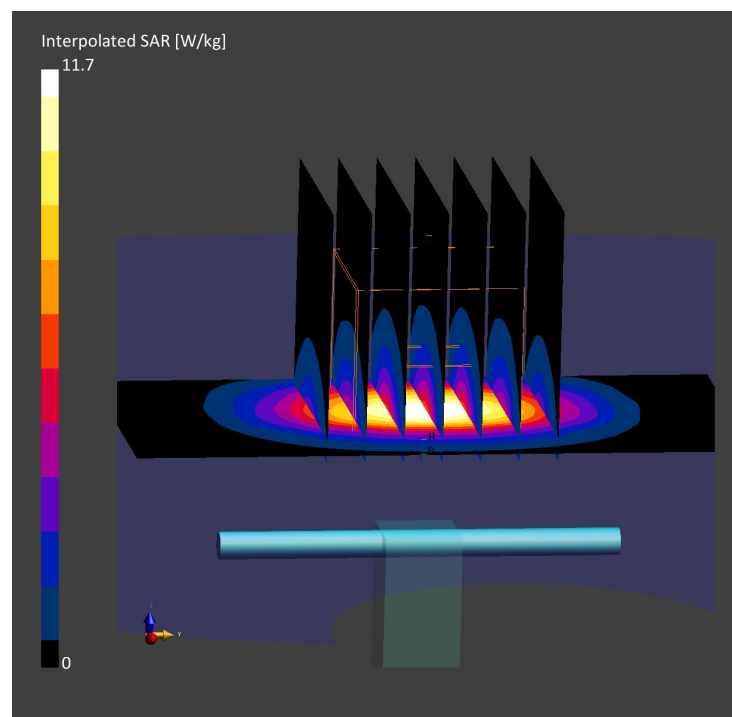
**Area Scan (40.0 x 80.0):** Measurement grid:  $dx=10.0$  mm,  $dy=10.0$  mm

**Zoom Scan (30.0 x 30.0 x 30.0):** Measurement grid:  $dx=5.0$  mm,  $dy=5.0$  mm,  $dz=1.5$  mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 11.7 W/kg

**SAR(1 g) = 5.13 W/kg; SAR(10 g) = 2.30 W/kg**

Deviation (1 g) = -1.91%; Deviation (10 g) = -6.12%



# ELEMENT

**DUT: Dipole 2600.0 MHz; Type: D2600V2; Serial: 1042**

Communication System: UID: 0, CW; Frequency: 2600.0 MHz

Medium: 2450 Head; Medium parameters used:

f = 2600.0 MHz; cond = 1.96 S/m; perm = 39.5; density = 1000 kg/m<sup>3</sup>

Phantom Section: Flat; Space: 10 mm

Test Date: 06/12/2022; Ambient Temp: 22.3°C; Tissue Temp: 20.0°C

Probe: EX3DV4 - SN7308; ConvF:(7.85,7.85,7.85); Calibrated: 2022-02-21

Sensor-Surface: 1.4mm (VMS + 6p)

Electronics: DAE4 Sn467; Calibrated: 2022-02-24

Phantom: Twin-SAM V8.0; Serial: 2029

Measurement SW: DASY Module SAR V16.0.2.136

## 2600 MHz System Verification at 20 dBm

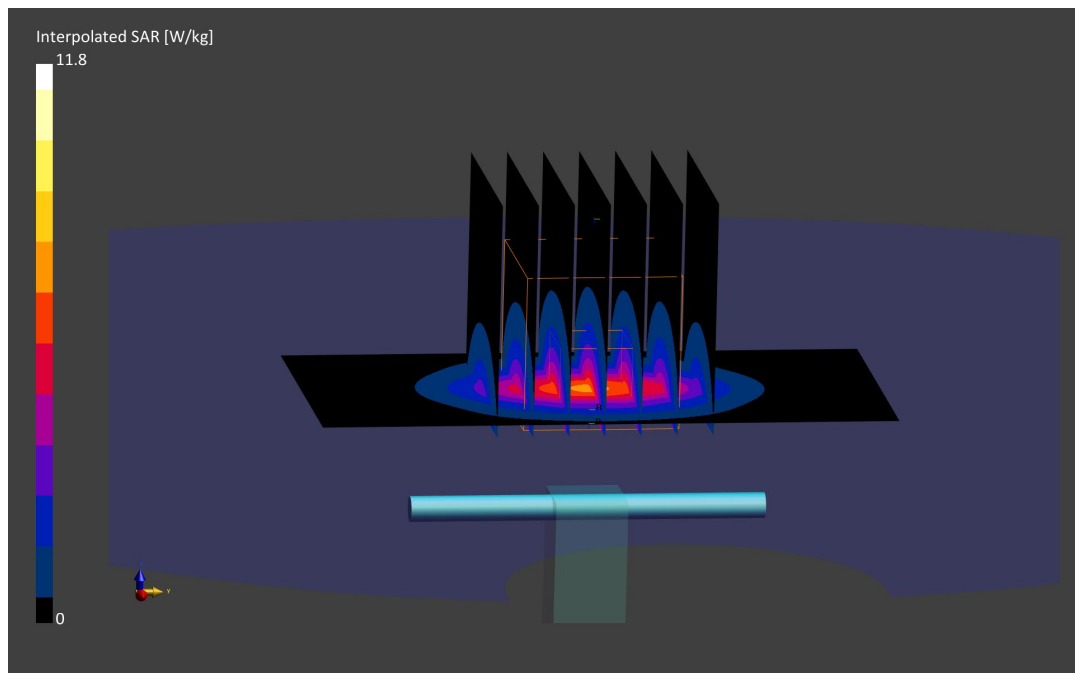
**Area Scan (40.0 x 80.0):** Measurement grid: dx=10.0 mm, dy=10.0 mm

**Zoom Scan (30.0 x 30.0 x 30.0):** Measurement grid: dx=5.0 mm, dy=5.0 mm, dz=1.5 mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 11.8 W/kg

**SAR(1 g) = 5.36 W/kg; SAR(10 g) = 2.39 W/kg**

Deviation (1 g) = -3.94%; Deviation (10 g) = -4.02%



# ELEMENT

**DUT: Dipole 2600.0 MHz; Type: D2600V2 - SN1068**

Communication System: UID: 0, CW; Frequency: 2600.0 MHz

Medium: 2600 Head; Medium parameters used:

$f = 2600.0$  MHz;  $\text{cond} = 1.93$  S/m;  $\text{perm} = 38.0$ ;  $\text{density} = 1000$  kg/m<sup>3</sup>

Phantom Section: Flat; Space: 10 mm

Test Date: 08/31/2022; Ambient Temp: 23.50°C; Tissue Temp: 22.70°C

Probe: EX3DV4 - SN7308; ConvF:(7.85,7.85,7.85); Calibrated: 2022-02-21

Sensor-Surface: 1.4mm (VMS + 6p)

Electronics: DAE4 Sn467; Calibrated: 2022-02-24

Phantom: Twin-SAM V8.0; Serial: 2029

Measurement SW: DASY Module SAR V16.0.2.136

## 2600 MHz System Verification at 20 dBm (100 mW)

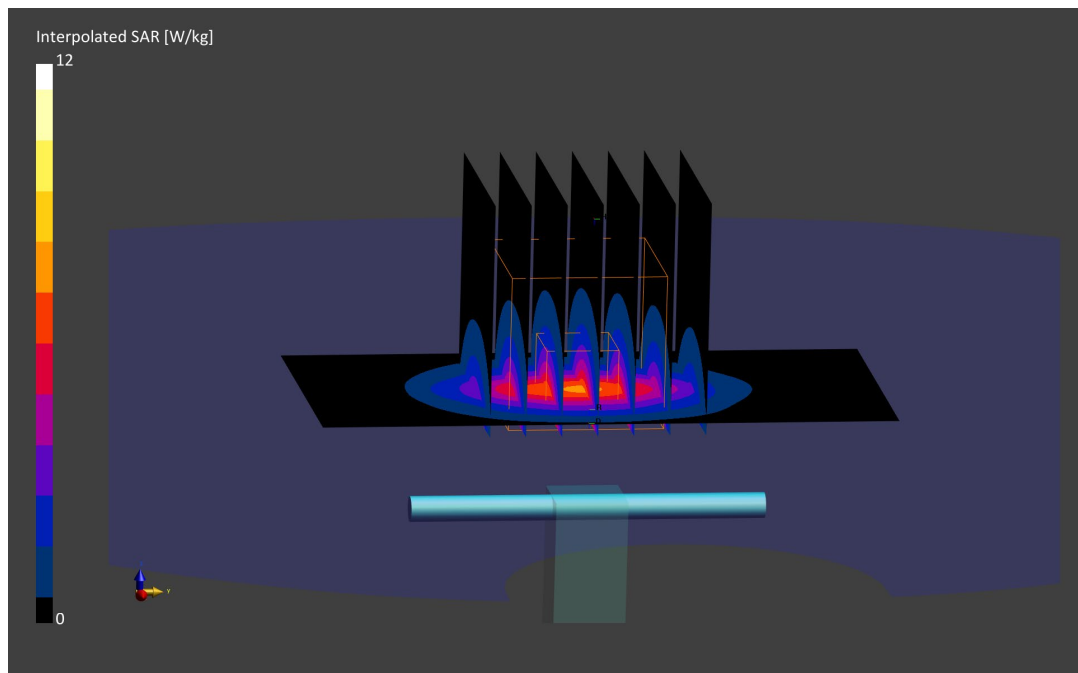
**Area Scan (40.0 x 80.0):** Measurement grid:  $dx=10.0$  mm,  $dy=10.0$  mm

**Zoom Scan (30.0 x 30.0 x 30.0):** Measurement grid:  $dx=5.0$  mm,  $dy=5.0$  mm,  $dz=1.5$  mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 12.0 W/kg

**SAR(1 g) = 5.49 W/kg**

Deviation (1 g) = -1.44%



# ELEMENT

**DUT: Dipole 5250.0 MHz; Type: D5GHzV2; Serial: 1123**

Communication System: UID: 0, CW; Frequency: 5250.0 MHz

Medium: 5200-5800 Head; Medium parameters used:

f = 5250.0 MHz; cond = 4.63 S/m; perm = 35.7; density = 1000 kg/m<sup>3</sup>

Phantom Section: Flat; Space: 10 mm

Test Date: 06/06/2022; Ambient Temp: 19.7°C; Tissue Temp: 19.4°C

Probe: EX3DV4 - SN7546; ConvF:(5.71,5.71,5.71); Calibrated: 2022-04-22

Sensor-Surface: 1.4mm (VMS + 6p)

Electronics: DAE4 Sn1402; Calibrated: 2022-04-14

Phantom: Twin-SAM V8.0; Serial: 2070

Measurement SW: DASY Module SAR V16.0.2.83

## 5250 MHz System Verification at 17 dBm (50 mW)

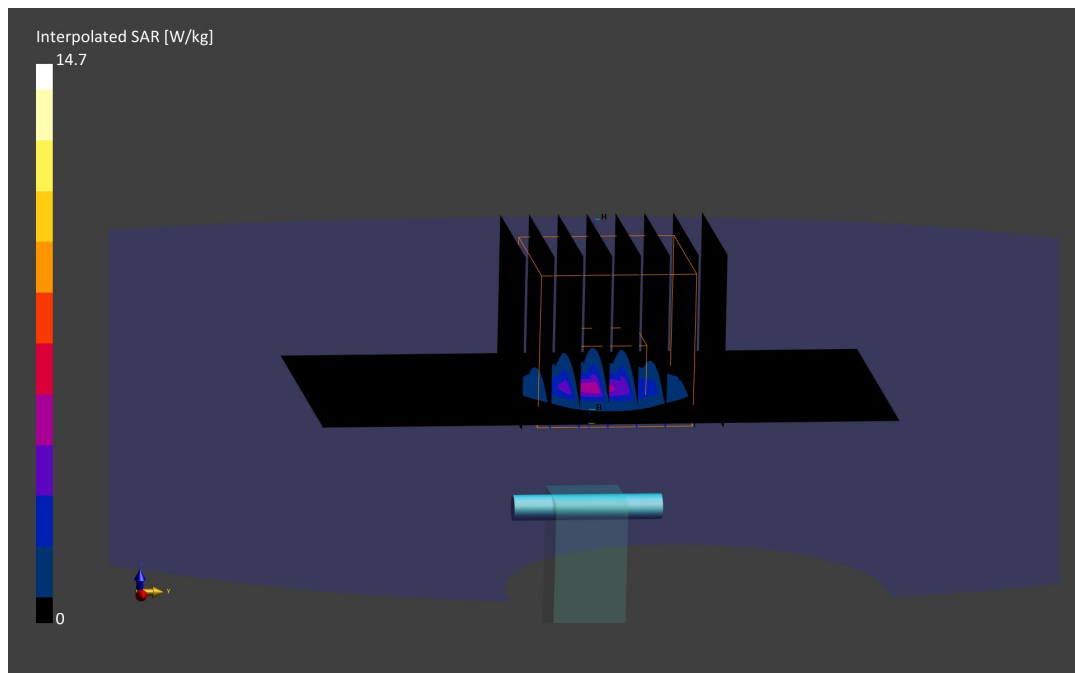
**Area Scan (40.0 x 80.0):** Measurement grid: dx=10.0 mm, dy=10.0 mm

**Zoom Scan (22.0 x 22.0 x 22.0):** Measurement grid: dx=4.0 mm, dy=4.0 mm, dz=1.4 mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 14.7 W/kg

**SAR(1 g) = 3.75 W/kg; SAR(10 g) = 1.07 W/kg**

Deviation (1 g) = -6.83%; Deviation (10 g) = -6.55%



# ELEMENT

**DUT: Dipole 5600.0 MHz; Type: D5GHzV2; Serial: 1123**

Communication System: UID: 0, CW; Frequency: 5600.0 MHz

Medium: 5200-5800 Head; Medium parameters used:

$f = 5600.0$  MHz;  $\text{cond} = 5.03$  S/m;  $\text{perm} = 35.0$ ;  $\text{density} = 1000$  kg/m<sup>3</sup>

Phantom Section: Flat; Space: 10 mm

Test Date: 06/06/2022; Ambient Temp: 19.7°C; Tissue Temp: 19.4°C

Probe: EX3DV4 - SN7546; ConvF:(4.95,4.95,4.95); Calibrated: 2022-04-22

Sensor-Surface: 1.4mm (VMS + 6p)

Electronics: DAE4 Sn1402; Calibrated: 2022-04-14

Phantom: Twin-SAM V8.0; Serial: 2070

Measurement SW: DASY Module SAR V16.0.2.83

## 5600 MHz System Verification at 17 dBm (50 mW)

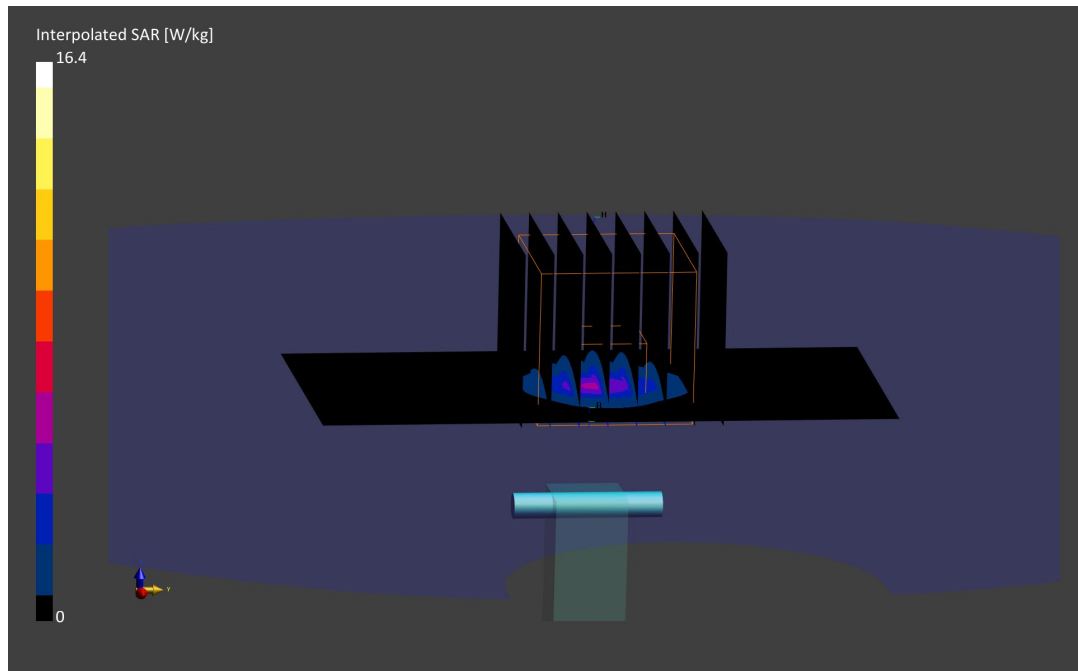
**Area Scan (40.0 x 80.0):** Measurement grid:  $dx=10.0$  mm,  $dy=10.0$  mm

**Zoom Scan (22.0 x 22.0 x 22.0):** Measurement grid:  $dx=4.0$  mm,  $dy=4.0$  mm,  $dz=1.4$  mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 16.4 W/kg

**SAR(1 g) = 3.88 W/kg; SAR(10 g) = 1.10 W/kg**

Deviation (1 g) = -7.29%; Deviation (10 g) = -7.17%



# ELEMENT

**DUT: Dipole 5750.0 MHz; Type: D5GHzV2; Serial: 1123**

Communication System: UID: 0, CW; Frequency: 5750.0 MHz

Medium: 5200-5800 Head; Medium parameters used:

$f = 5750.0$  MHz;  $\text{cond} = 5.20$  S/m;  $\text{perm} = 34.8$ ;  $\text{density} = 1000$  kg/m<sup>3</sup>

Phantom Section: Flat; Space: 10 mm

Test Date: 06/06/2022; Ambient Temp: 19.7°C; Tissue Temp: 19.4°C

Probe: EX3DV4 - SN7546; ConvF:(5.02,5.02,5.02); Calibrated: 2022-04-22

Sensor-Surface: 1.4mm (VMS + 6p)

Electronics: DAE4 Sn1402; Calibrated: 2022-04-14

Phantom: Twin-SAM V8.0; Serial: 2070

Measurement SW: DASY Module SAR V16.0.2.83

## 5750 MHz System Verification at 17 dBm (50 mW)

**Area Scan (40.0 x 80.0):** Measurement grid:  $dx=10.0$  mm,  $dy=10.0$  mm

**Zoom Scan (22.0 x 22.0 x 22.0):** Measurement grid:  $dx=4.0$  mm,  $dy=4.0$  mm,  $dz=1.4$  mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 16.3 W/kg

**SAR(1 g) = 3.74 W/kg; SAR(10 g) = 1.06 W/kg**

Deviation (1 g) = -7.08%; Deviation (10 g) = -6.61%

