

APPENDIX B: SYSTEM VERIFICATION

ELEMENT

DUT: Dipole 13.0 MHz; Type: CLA-13 - SN1004

Communication System: UID: 0, CW; Frequency: 13.0 MHz
Medium: 30 Head; Medium parameters used:
f = 13.0 MHz; cond = 0.727 S/m; perm = 53.5; density = 1000 kg/m³
Phantom Section: Flat; Space: 0 mm

Test Date: 02/14/2024; Ambient Temp: 22.6°C; Tissue Temp: 21.9°C

Probe: EX3DV4 - SN7360; ConvF:(17.98,17.98,17.98); Calibrated: 2023-03-16
Sensor-Surface: 1.4mm (All points)
Electronics: DAE4 Sn534; Calibrated: 2023-03-15
Phantom: ELI V6.0; Serial: 2044
Measurement SW: DASY Module SAR V16.2.0.1425

13.0 MHz System Verification at 30.0 dBm (1000 mW)

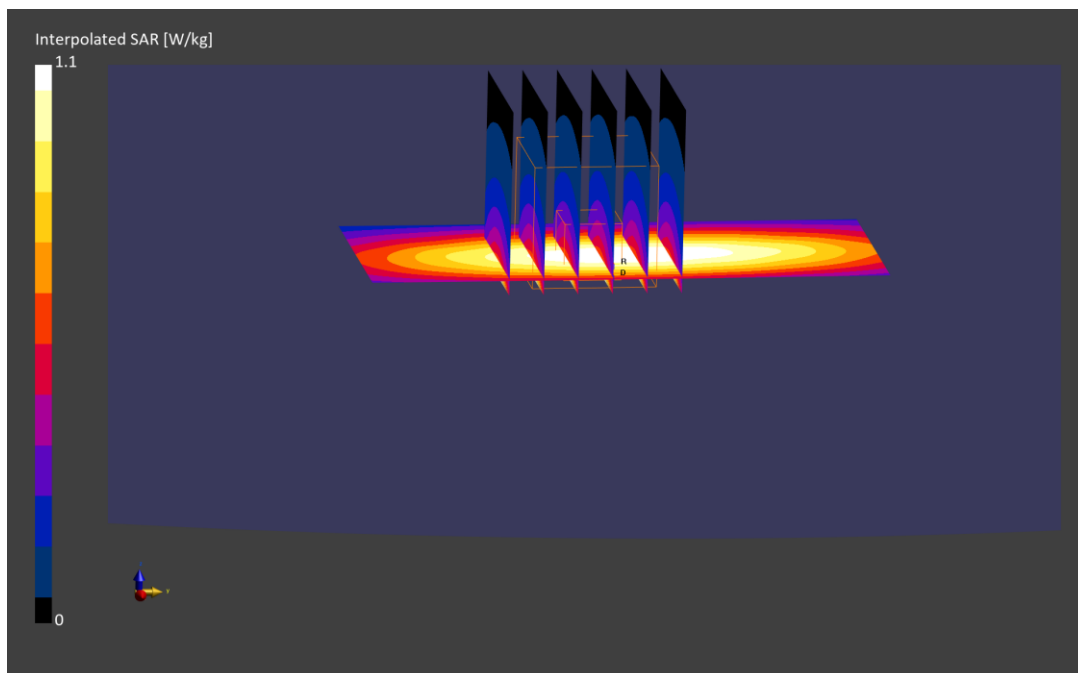
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 1.10 W/kg

SAR(1 g) = 0.552 W/kg

Deviation (1 g) = -4.50%



ELEMENT

DUT: Dipole 750.0 MHz; Type: D750V3 - SN1057

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

Medium: 750 Head; Medium parameters used:

$f = 750.0$ MHz; $\text{cond} = 0.876$ S/m; $\text{perm} = 42.2$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 15 mm

Test Date: 01/06/2024; Ambient Temp: 23.7°C; Tissue Temp: 23.3°C

Probe: EX3DV4 - SN7357; ConvF:(9.9,9.9,9.9); Calibrated: 2023-04-13

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

Electronics: DAE4 Sn1582; Calibrated: 2023-04-14

Phantom: Twin-SAM V8.0; Serial: 1866

Measurement SW: DASY Module SAR V16.2.0.1425

750.0 MHz System Verification at 23.0 dBm (200 mW)

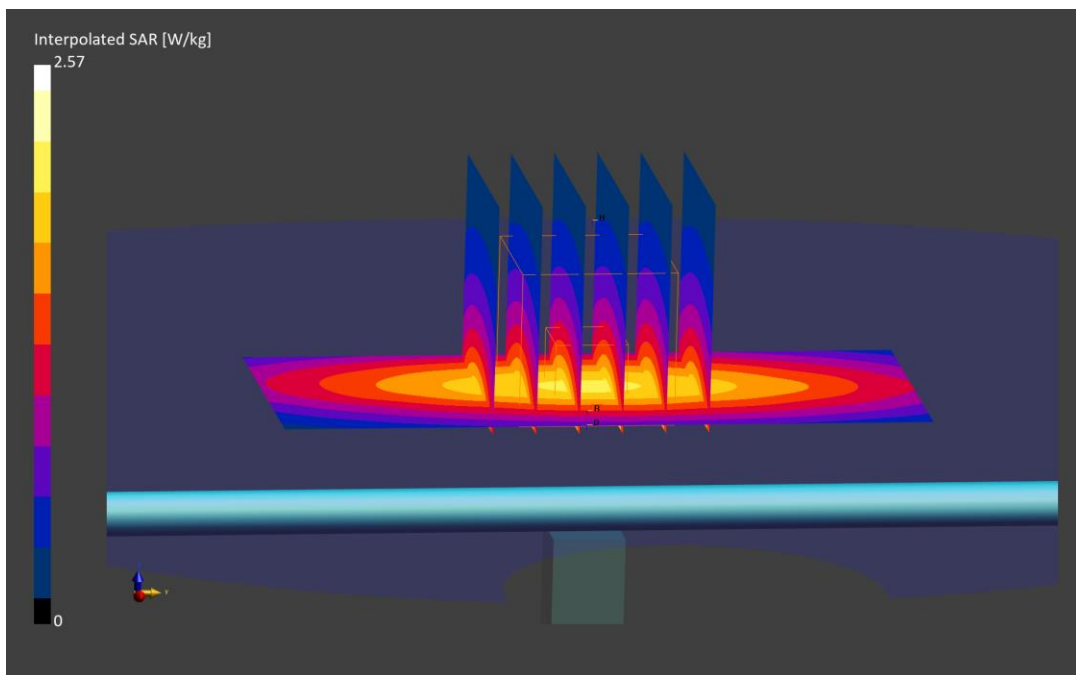
Area Scan (40.0 x 90.0): Measurement grid: $dx=10.0$ mm, $dy=15.0$ mm

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) = 2.57 W/kg

SAR(1 g) = 1.73 W/kg

Deviation (1 g) = 1.65%



ELEMENT

DUT: Dipole 750.0 MHz; Type: D750V3 - SN1034

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

Medium: 750 Head; Medium parameters used:

$f = 750.0$ MHz; $\text{cond} = 0.870$ S/m; $\text{perm} = 43.8$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 15 mm

Test Date: 01/08/2024; Ambient Temp: 20.0°C; Tissue Temp: 20.0°C

Probe: EX3DV4 - SN3949; ConvF:(10.55,10.55,10.55); Calibrated: 2023-10-02

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

Electronics: DAE4 Sn1684; Calibrated: 2023-09-12

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

Measurement SW: DASY Module SAR V16.2.0.1425

750.0 MHz System Verification at 23.0 dBm (200 mW)

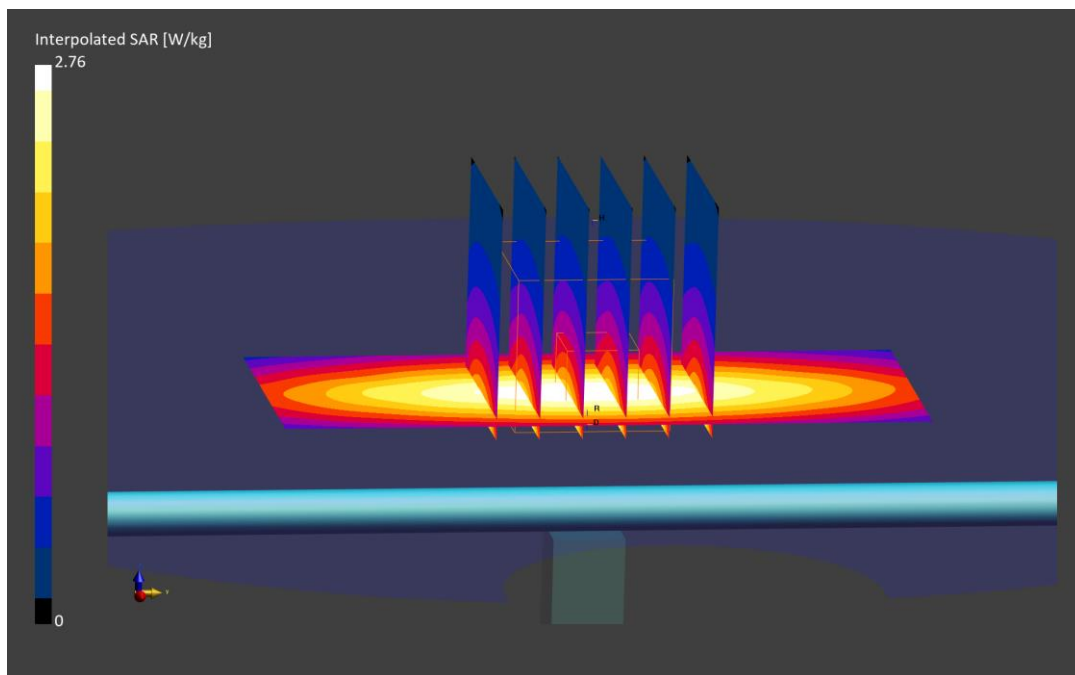
Area Scan (40.0 x 90.0): Measurement grid: $dx=10.0$ mm, $dy=15.0$ mm

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) = 2.76 W/kg

SAR(1 g) = 1.77 W/kg

Deviation (1 g) = 2.43%



ELEMENT

DUT: Dipole 750.0 MHz; Type: D750V3 - SN1057

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

Medium: 750 Head; Medium parameters used:

$f = 750.0$ MHz; $\text{cond} = 0.879$ S/m; $\text{perm} = 41.9$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 15 mm

Test Date: 01/14/2024; Ambient Temp: 22.9°C; Tissue Temp: 23.0°C

Probe: EX3DV4 - SN7357; ConvF:(9.9,9.9,9.9); Calibrated: 2023-04-13

Sensor-Surface: 1.4mm (All points)

Electronics: DAE4 Sn1582; Calibrated: 2023-04-14

Phantom: Twin-SAM V8.0; Serial: 1866

Measurement SW: DASY Module SAR V16.2.0.1425

750.0 MHz System Verification at 23.0 dBm (200 mW)

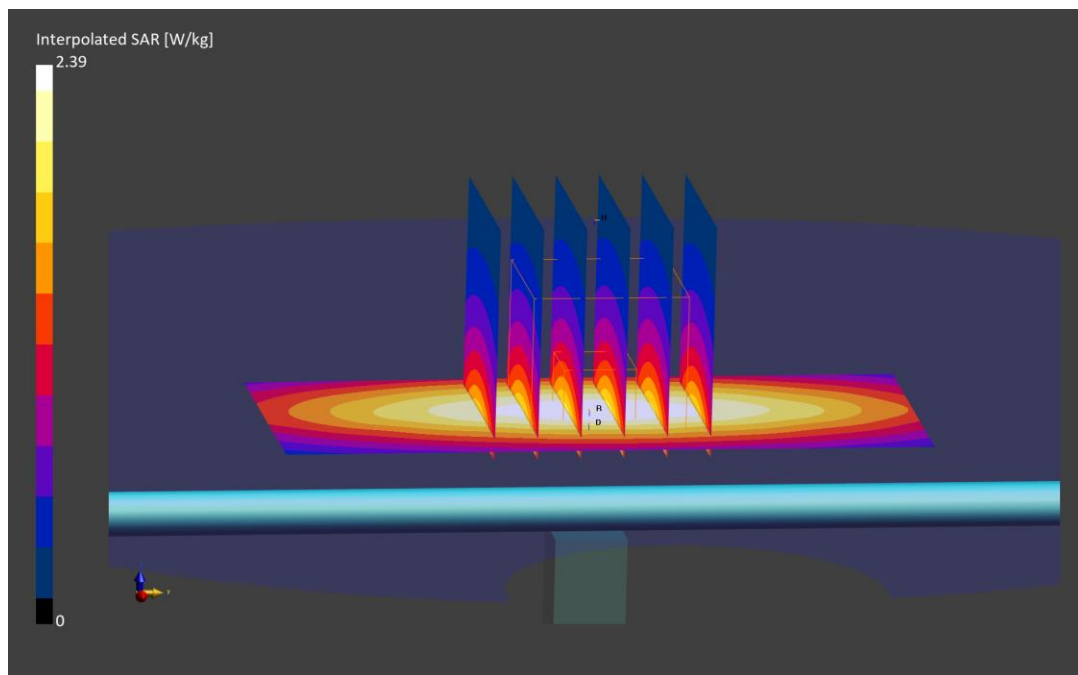
Area Scan (40.0 x 90.0): Measurement grid: $dx=10.0$ mm, $dy=15.0$ mm

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) = 2.39 W/kg

SAR(1 g) = 1.65 W/kg

Deviation (1 g) = -3.06%



ELEMENT

DUT: Dipole 750.0 MHz; Type: D750V3 - SN1097

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

Medium: 750 Head; Medium parameters used:

$f = 750.0$ MHz; $\text{cond} = 0.876$ S/m; $\text{perm} = 40.7$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 15 mm

Test Date: 01/18/2024; Ambient Temp: 23.0°C; Tissue Temp: 21.9°C

Probe: EX3DV4 - SN3949; ConvF:(10.55,10.55,10.55); Calibrated: 2023-10-02

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

Electronics: DAE4 Sn1684; Calibrated: 2023-09-12

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

Measurement SW: DASY Module SAR V16.2.0.1425

750.0 MHz System Verification at 23.0 dBm (200 mW)

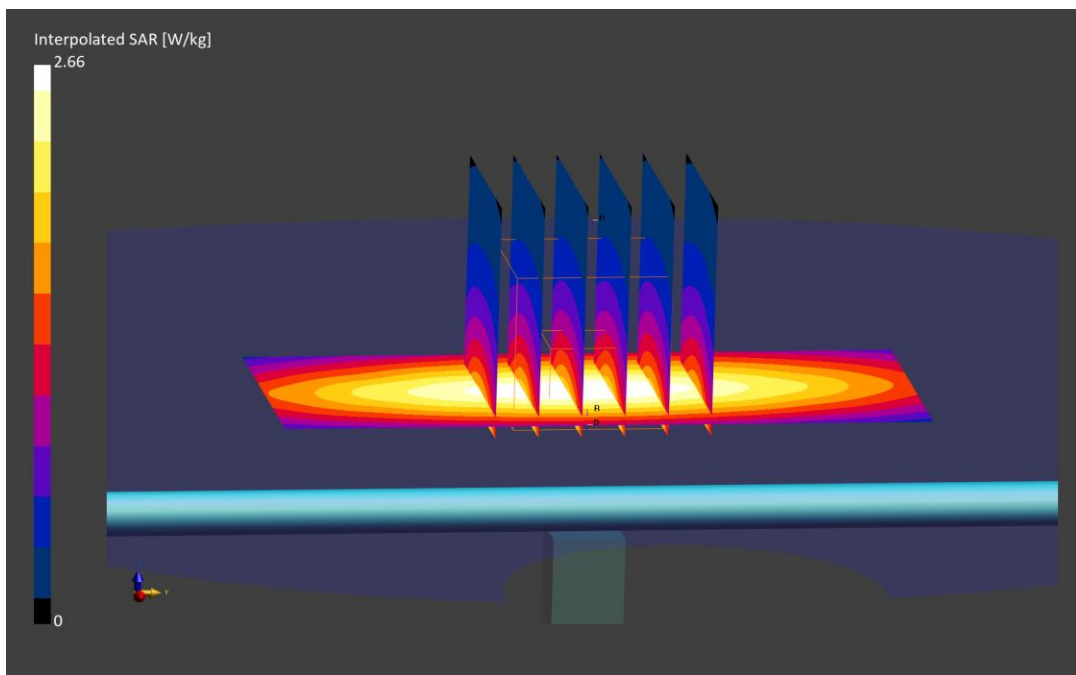
Area Scan (40.0 x 90.0): Measurement grid: $dx=10.0$ mm, $dy=15.0$ mm

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) = 2.66 W/kg

SAR(1 g) = 1.70 W/kg

Deviation (1 g) = 2.78%



ELEMENT

DUT: Dipole 750.0 MHz; Type: D750V3 - SN1057

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

Medium: 750 Head; Medium parameters used:

$f = 750.0$ MHz; $\text{cond} = 0.866$ S/m; $\text{perm} = 42.1$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 15 mm

Test Date: 01/18/2024; Ambient Temp: 22.5°C; Tissue Temp: 23.2°C

Probe: EX3DV4 - SN7357; ConvF:(9.9,9.9,9.9); Calibrated: 2023-04-13

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

Electronics: DAE4 Sn1582; Calibrated: 2023-04-14

Phantom: Twin-SAM V8.0; Serial: 1866

Measurement SW: DASY Module SAR V16.2.0.1425

750.0 MHz System Verification at 23.0 dBm (200 mW)

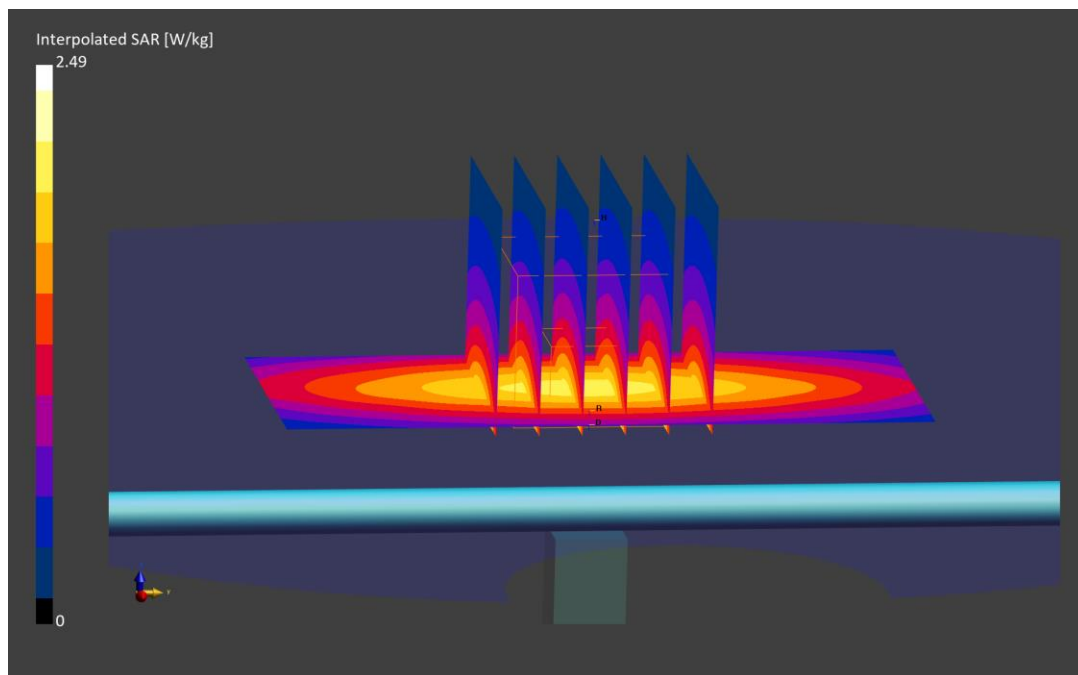
Area Scan (40.0 x 90.0): Measurement grid: $dx=10.0$ mm, $dy=15.0$ mm

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) = 2.49 W/kg

SAR(1 g) = 1.70 W/kg

Deviation (1 g) = -0.12%



ELEMENT

DUT: Dipole 835.0 MHz; Type: D835V2 - SN4d040

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

Medium: 835 Head; Medium parameters used:

$f = 835.0$ MHz; $\text{cond} = 0.885$ S/m; $\text{perm} = 42.6$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 15 mm

Test Date: 01/04/2024; Ambient Temp: 20.8°C; Tissue Temp: 20.0°C

Probe: EX3DV4 - SN7416; ConvF:(9.73,9.73,9.73); Calibrated: 2023-05-08

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

Electronics: DAE4 Sn701; Calibrated: 2023-05-11

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

Measurement SW: DASY Module SAR V16.2.0.1425

835.0 MHz System Verification at 23.0 dBm (200 mW)

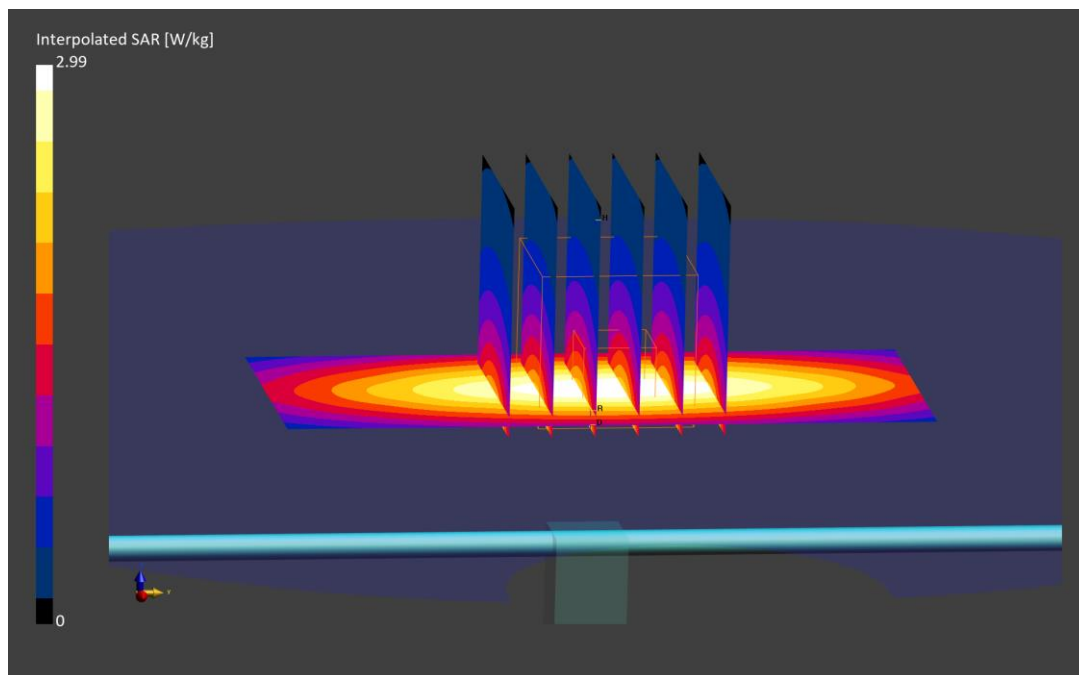
Area Scan (40.0 x 90.0): Measurement grid: $dx=10.0$ mm, $dy=15.0$ mm

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) = 2.99 W/kg

SAR(1 g) = 1.89 W/kg

Deviation (1 g) = -3.47%



ELEMENT

DUT: Dipole 835.0 MHz; Type: D835V2 - SN4d040

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

Medium: 835 Head; Medium parameters used:

$f = 835.0$ MHz; $\text{cond} = 0.886$ S/m; $\text{perm} = 41.2$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 15 mm

Test Date: 01/08/2024; Ambient Temp: 20.8°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN7416; ConvF:(9.73,9.73,9.73); Calibrated: 2023-05-08

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

Electronics: DAE4 Sn701; Calibrated: 2023-05-11

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

Measurement SW: DASY Module SAR V16.2.0.1425

835.0 MHz System Verification at 23.0 dBm (200 mW)

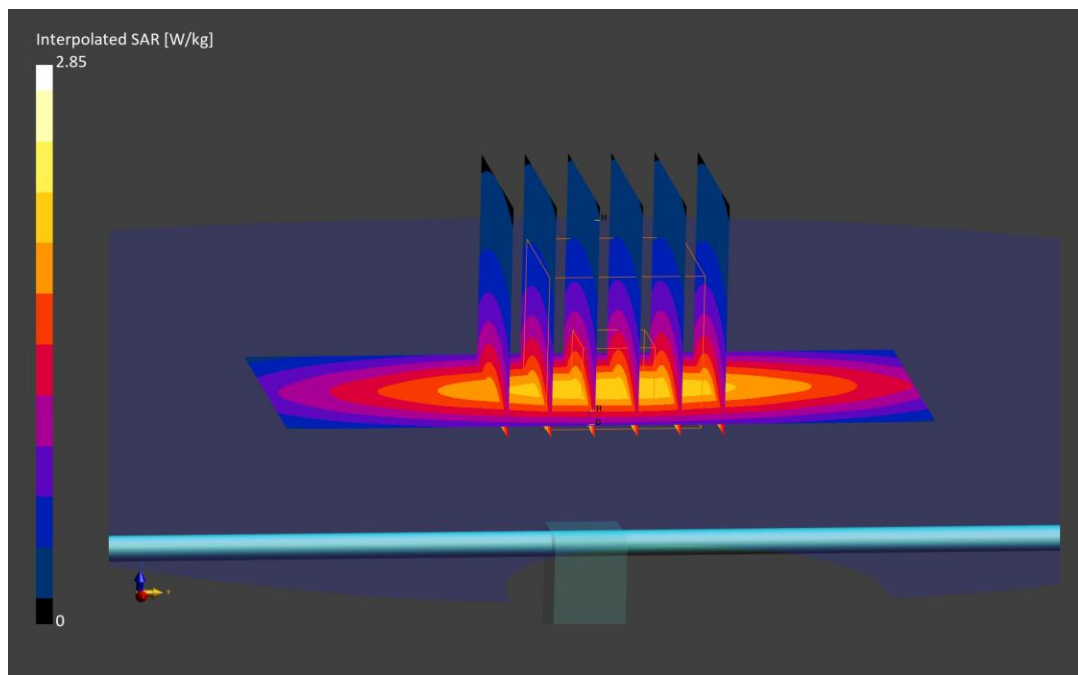
Area Scan (40.0 x 90.0): Measurement grid: $dx=10.0$ mm, $dy=15.0$ mm

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) = 2.85 W/kg

SAR(1 g) = 1.82 W/kg

Deviation (1 g) = -7.05%



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; $\text{cond} = 0.868$ S/m; $\text{perm} = 41.1$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 15 mm

Test Date: 01/11/2024; Ambient Temp: 19.4°C; Tissue Temp: 20.3°C

Probe: EX3DV4 - SN7416; ConvF:(9.73,9.73,9.73); Calibrated: 2023-05-08

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

Electronics: DAE4 Sn701; Calibrated: 2023-05-11

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

Measurement SW: DASY Module SAR V16.2.0.1425

835.0 MHz System Verification at 23.0 dBm (200 mW)

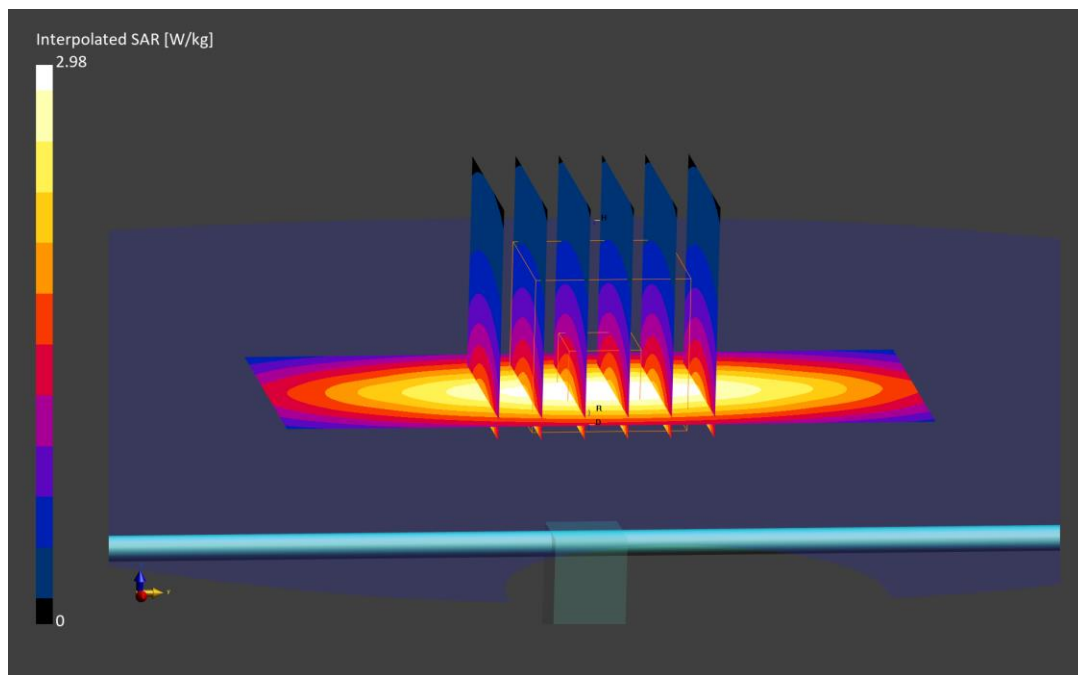
Area Scan (40.0 x 90.0): Measurement grid: $dx=10.0$ mm, $dy=15.0$ mm

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) = 2.98 W/kg

SAR(1 g) = 1.90 W/kg

Deviation (1 g) = -3.06%



ELEMENT

DUT: Dipole 1750.0 MHz; Type: D1750V2 - SN1040

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

Medium: 1750 Head; Medium parameters used:

$f = 1750.0$ MHz; $\text{cond} = 1.38$ S/m; $\text{perm} = 39.4$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 01/16/2024; Ambient Temp: 21.5°C; Tissue Temp: 21.3°C

Probe: EX3DV4 - SN7639; ConvF:(8.98,8.98,8.98); Calibrated: 2023-11-09

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

Electronics: DAE4 Sn1403; Calibrated: 2023-11-14

Phantom: Twin-SAM V8.0; Serial: 2034

Measurement SW: DASY Module SAR V16.2.0.1425

1750.0 MHz System Verification at 20.0 dBm (100 mW)

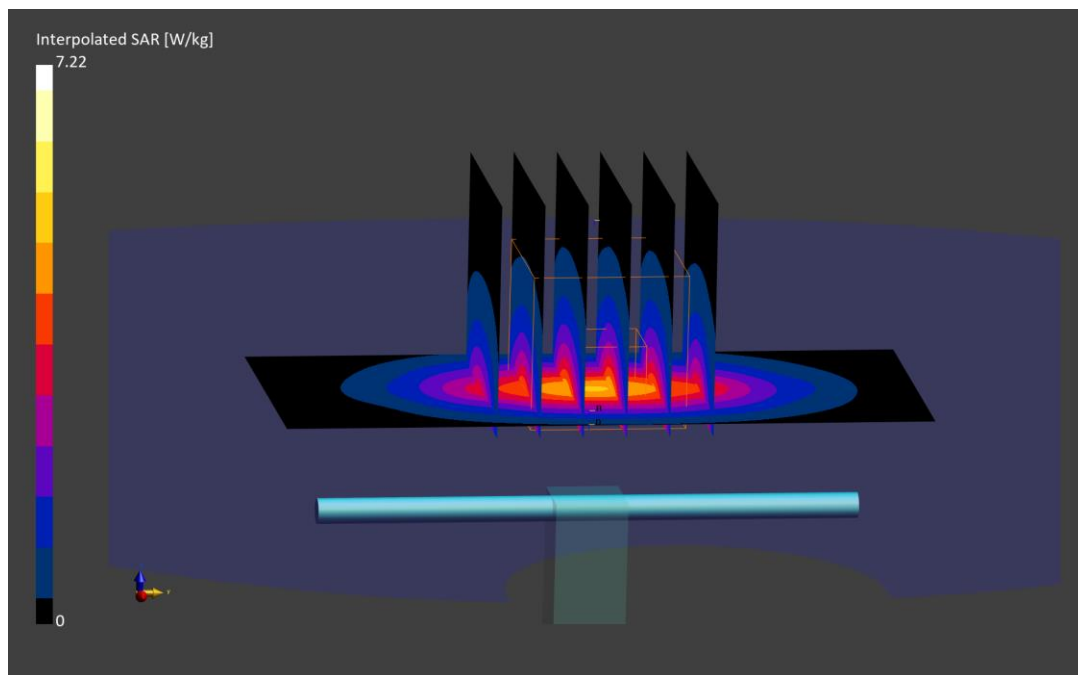
Area Scan (40.0 x 90.0): Measurement grid: $dx=10.0$ mm, $dy=15.0$ mm

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) = 7.22 W/kg

SAR(1 g) = 3.88 W/kg

Deviation (1 g) = 6.59%



ELEMENT

DUT: Dipole 1750.0 MHz; Type: D1750V2 - SN1040

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

Medium: 1750 Head; Medium parameters used:

$f = 1750.0$ MHz; $\text{cond} = 1.34$ S/m; $\text{perm} = 39.5$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 01/18/2024; Ambient Temp: 21.4°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7639; ConvF:(8.98,8.98,8.98); Calibrated: 2023-11-09

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

Electronics: DAE4 Sn1403; Calibrated: 2023-11-14

Phantom: Twin-SAM V8.0; Serial: 2034

Measurement SW: DASY Module SAR V16.2.0.1425

1750.0 MHz System Verification at 20.0 dBm (100 mW)

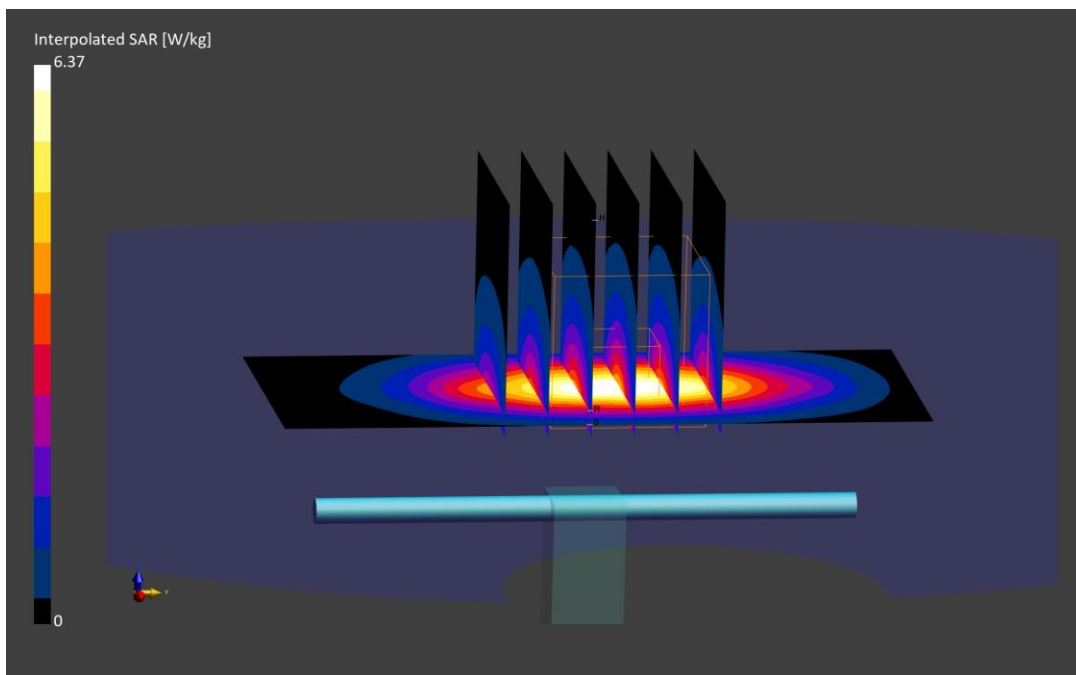
Area Scan (40.0 x 90.0): Measurement grid: $dx=10.0$ mm, $dy=15.0$ mm

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) = 6.37 W/kg

SAR(1 g) = 3.46 W/kg

Deviation (1 g) = -4.95%



ELEMENT

DUT: Dipole 1900.0 MHz; Type: D1900V2 - SN5d030

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

Medium: 1900 Head; Medium parameters used:

$f = 1900.0$ MHz; $\text{cond} = 1.39$ S/m; $\text{perm} = 38.2$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 01/18/2024; Ambient Temp: 21.8°C; Tissue Temp: 21.4°C

Probe: EX3DV4 - SN7682; ConvF:(8.85,8.85,8.85); Calibrated: 2023-05-11

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

Electronics: DAE4 Sn1683; Calibrated: 2023-05-11

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

Measurement SW: DASY Module SAR V16.2.0.1425

1900.0 MHz System Verification at 20.0 dBm (100 mW)

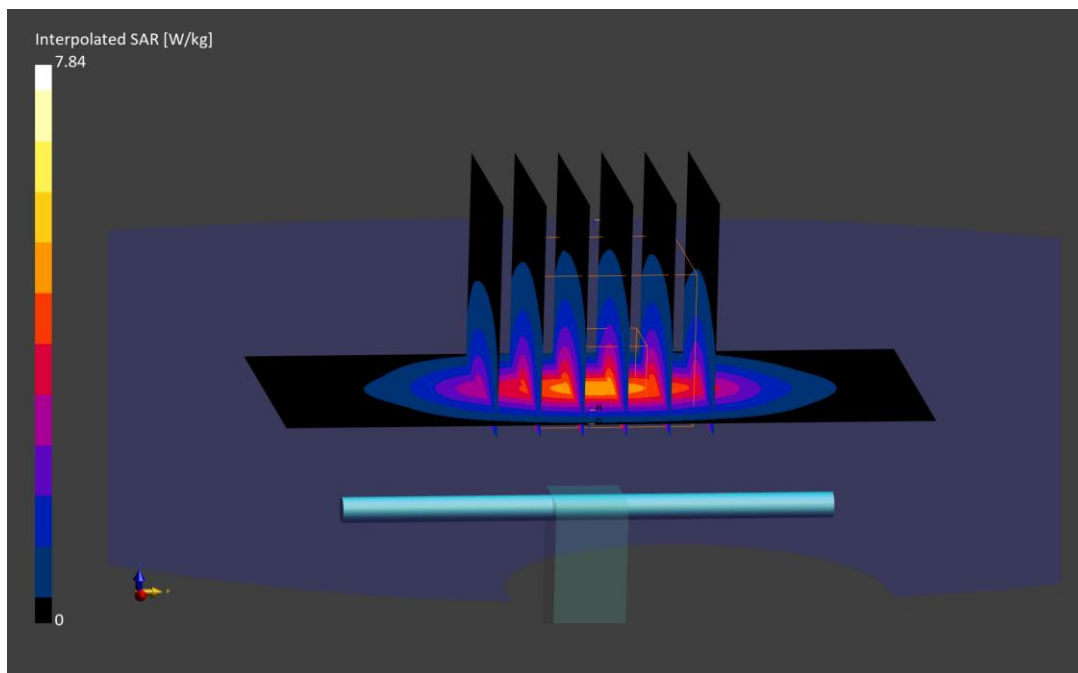
Area Scan (40.0 x 90.0): Measurement grid: $dx=10.0$ mm, $dy=15.0$ mm

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) = 7.85 W/kg

SAR(1 g) = 4.12 W/kg

Deviation (1 g) = 3.52%



ELEMENT

DUT: Dipole 1900.0 MHz; Type: D1900V2 - SN5d030

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

Medium: 1900 Head; Medium parameters used:

$f = 1900.0$ MHz; $\text{cond} = 1.38$ S/m; $\text{perm} = 38.7$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 01/23/2024; Ambient Temp: 22.0°C; Tissue Temp: 20.7°C

Probe: EX3DV4 - SN7682; ConvF:(8.85,8.85,8.85); Calibrated: 2023-05-11

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

Electronics: DAE4 Sn1683; Calibrated: 2023-05-11

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

Measurement SW: DASY Module SAR V16.2.0.1425

1900.0 MHz System Verification at 20.0 dBm (100 mW)

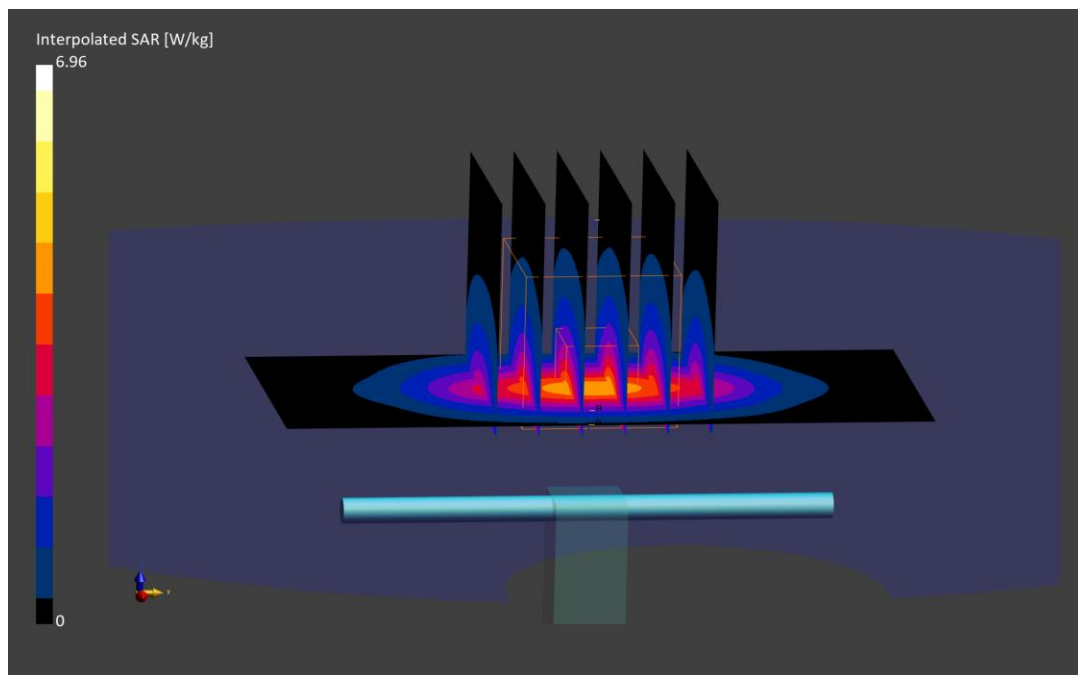
Area Scan (40.0 x 90.0): Measurement grid: $dx=10.0$ mm, $dy=15.0$ mm

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) = 6.96 W/kg

SAR(1 g) = 3.68 W/kg

Deviation (1 g) = -7.54%



ELEMENT

DUT: Dipole 2300.000 MHz; Type: D2300V2 - SN1064

Communication System: UID: 0, CW; Frequency: 2300.000 MHz
Medium: 2450 Head; Medium parameters used:
 $f = 2300.000$ MHz; $\text{cond} = 1.73$ S/m; $\text{perm} = 38.0$; $\text{density} = 1000$ kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 01/17/2024; Ambient Temp: 20.7°C; Tissue Temp: 24.0°C

Probe: EX3DV4 - SN7308; ConvF:(8.22,8.22,8.22); Calibrated: 2023-02-13
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn467; Calibrated: 2023-02-15
Phantom: Twin-SAM V8.0; Serial: 2058
Measurement SW: DASY Module SAR V16.2.0.1425

2300.0 MHz System Verification at 20.0 dBm (100 mW)

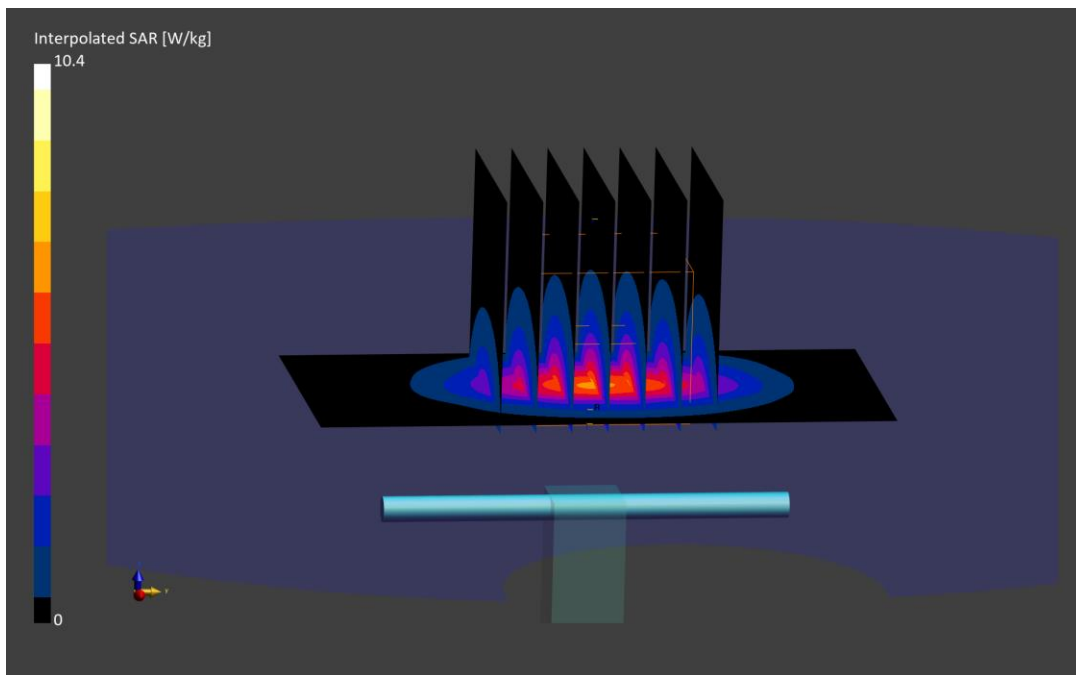
Area Scan (40.0 x 80.0): Measurement grid: $dx=10.0$ mm, $dy=10.0$ mm

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) = 10.4 W/kg

SAR(1 g) = 5.00 W/kg

Deviation (1 g) = 1.42%



ELEMENT

DUT: Dipole 2300.000 MHz; Type: D2300V2 - SN1038

Communication System: UID: 0, CW; Frequency: 2300.0 MHz

Medium: 2450 Head; Medium parameters used:

f = 2300.0 MHz; cond = 1.74 S/m; perm = 38.8; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 01/22/2024; Ambient Temp: 20.5°C; Tissue Temp: 19.1°C

Probe: EX3DV4 - SN7308; ConvF:(8.22,8.22,8.22); Calibrated: 2023-02-13

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

Electronics: DAE4 Sn467; Calibrated: 2023-02-15

Phantom: Twin-SAM V8.0; Serial: 2058

Measurement SW: DASY Module SAR V16.2.0.1425

2300.0 MHz System Verification at 20.0 dBm (100 mW)

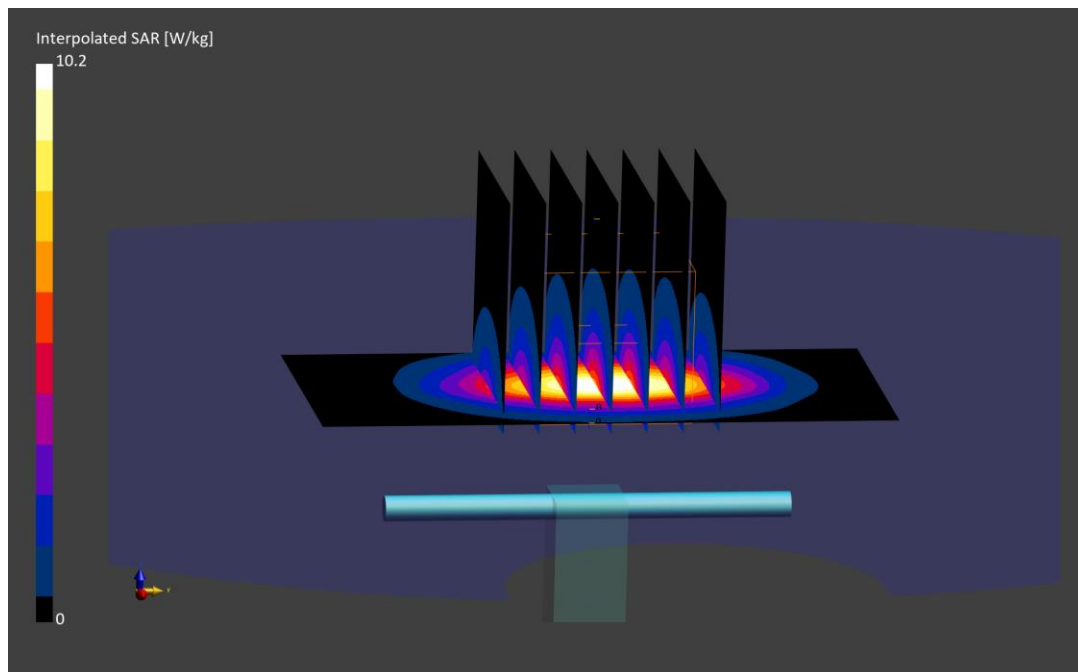
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 10.1 W/kg

SAR(1 g) = 4.94 W/kg

Deviation (1 g) = 1.65%



ELEMENT

DUT: Dipole 2450.0 MHz; Type: D2450V2 - SN750

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

Medium: 2450 Head; Medium parameters used:

$f = 2450.0$ MHz; $\text{cond} = 1.86$ S/m; $\text{perm} = 38.2$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 01/04/2024; Ambient Temp: 21.1°C; Tissue Temp: 23.4°C

Probe: EX3DV4 - SN7546; ConvF:(7.29,7.29,7.29); Calibrated: 2023-04-14

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

Electronics: DAE4 Sn1402; Calibrated: 2023-04-14

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

Measurement SW: DASY Module SAR V16.2.0.1425

2450.0 MHz System Verification at 20.0 dBm (100 mW)

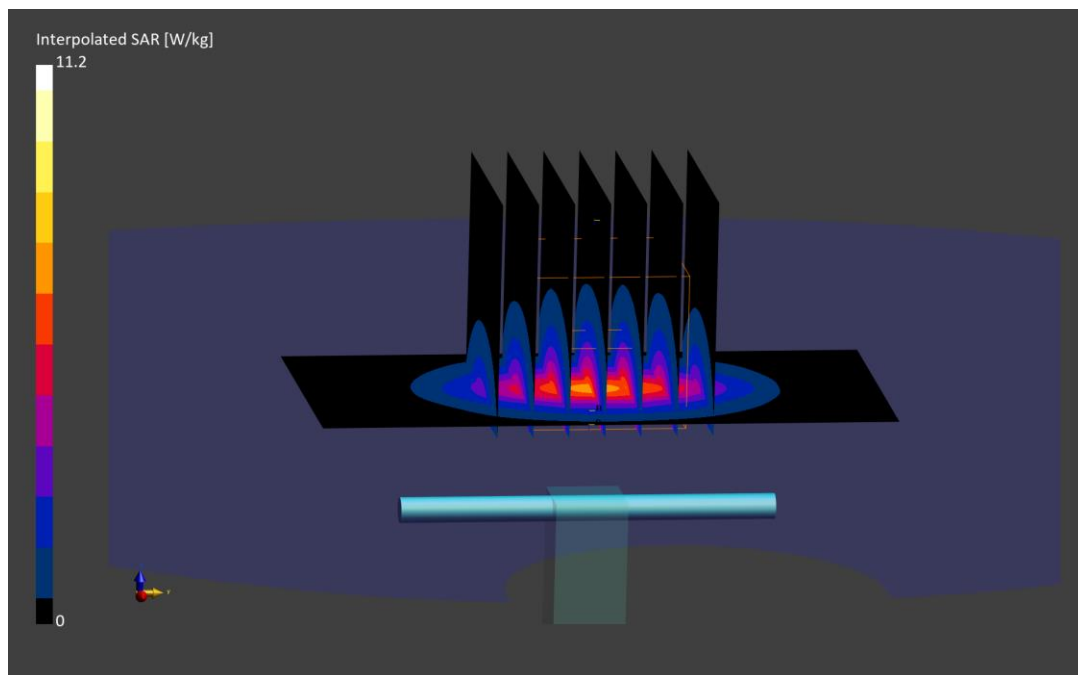
Area Scan (40.0 x 80.0): Measurement grid: $dx=10.0$ mm, $dy=10.0$ mm

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) = 11.3 W/kg

SAR(1 g) = 5.28 W/kg

Deviation (1 g) = 0.38%



ELEMENT

DUT: Dipole 2450.0 MHz; Type: D2450V2 - SN921

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

Medium: 2450 Head; Medium parameters used:

$f = 2450.0$ MHz; $\text{cond} = 1.76$ S/m; $\text{perm} = 40.9$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 01/12/2024; Ambient Temp: 20.8°C; Tissue Temp: 19.7°C

Probe: EX3DV4 - SN7421; ConvF:(7.45,7.45,7.45); Calibrated: 2023-03-16

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

Electronics: DAE4 Sn604; Calibrated: 2023-03-15

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

Measurement SW: DASY Module SAR V16.2.0.1425

2450.0 MHz System Verification at 20.0 dBm (100 mW)

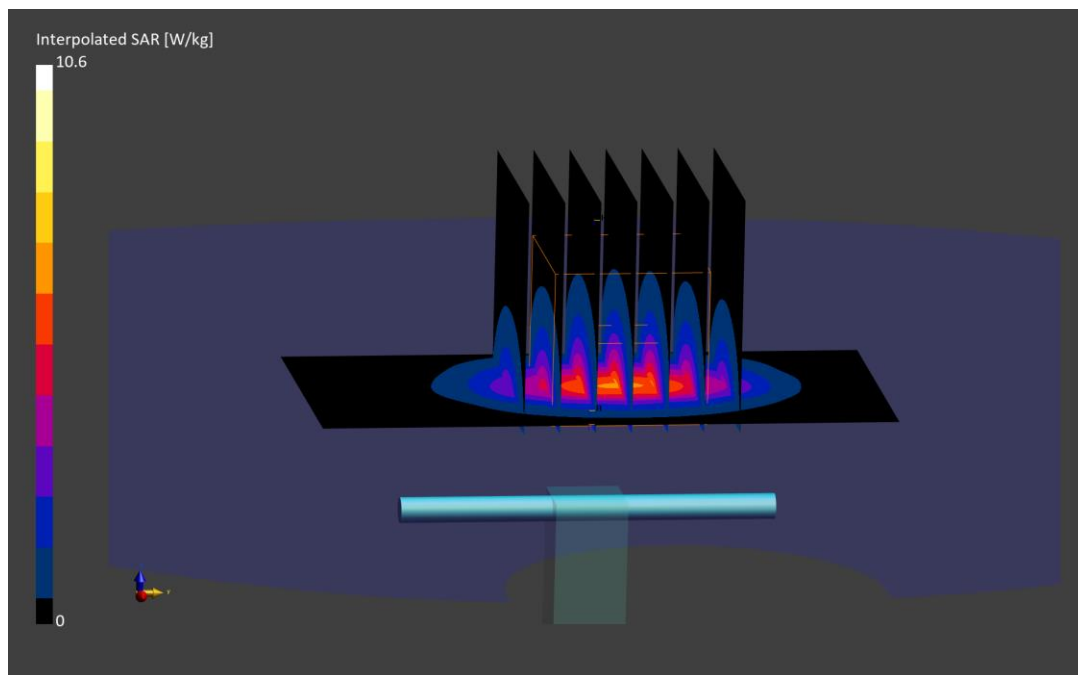
Area Scan (40.0 x 80.0): Measurement grid: $dx=10.0$ mm, $dy=10.0$ mm

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) = 10.6 W/kg

SAR(1 g) = 5.12 W/kg

Deviation (1 g) = -5.54%



ELEMENT

DUT: Dipole 2450.0 MHz; Type: D2450V2 - SN750

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

Medium: 2450 Head; Medium parameters used:

$f = 2450.0$ MHz; $\text{cond} = 1.85$ S/m; $\text{perm} = 38.1$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 01/24/2024; Ambient Temp: 22.0°C; Tissue Temp: 24.6°C

Probe: EX3DV4 - SN7546; ConvF:(7.29,7.29,7.29); Calibrated: 2023-04-14

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

Electronics: DAE4 Sn1402; Calibrated: 2023-04-14

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

Measurement SW: DASY Module SAR V16.2.0.1425

2450.0 MHz System Verification at 20.0 dBm (100 mW)

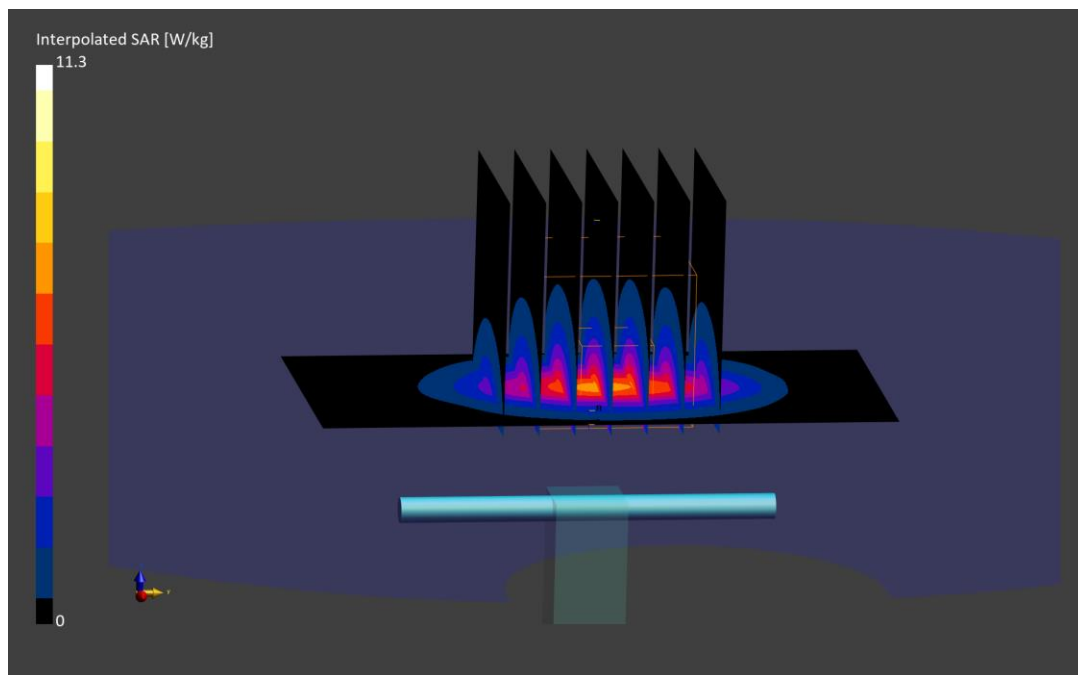
Area Scan (40.0 x 80.0): Measurement grid: $dx=10.0$ mm, $dy=10.0$ mm

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) = 11.3 W/kg

SAR(1 g) = 5.38 W/kg

Deviation (1 g) = 2.28%



ELEMENT

DUT: Dipole 2450.0 MHz; Type: D2450V2 - SN855

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

Medium: 2450 Head; Medium parameters used:

$f = 2450.0$ MHz; $\text{cond} = 1.76$ S/m; $\text{perm} = 40.4$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 01/28/2024; Ambient Temp: 21.3°C; Tissue Temp: 19.8°C

Probe: EX3DV4 - SN7421; ConvF:(7.45,7.45,7.45); Calibrated: 2023-03-16

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

Electronics: DAE4 Sn604; Calibrated: 2023-03-15

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

Measurement SW: DASY Module SAR V16.2.0.1425

2450.0 MHz System Verification at 20.0 dBm (100 mW)

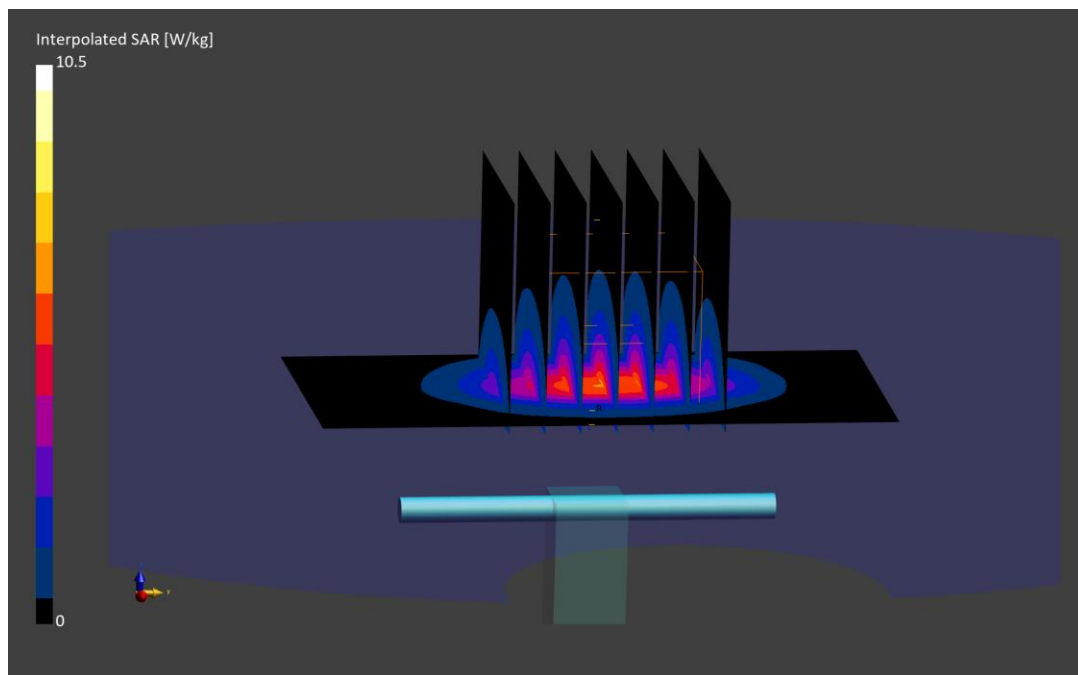
Area Scan (40.0 x 80.0): Measurement grid: $dx=10.0$ mm, $dy=10.0$ mm

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

Peak SAR (extrapolated) = 10.5 W/kg

SAR(1 g) = 5.04 W/kg

Deviation (1 g) = -3.82%



ELEMENT

DUT: Dipole 2450.0 MHz; Type: D2450V2 - SN921

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

Medium: 2450 Head; Medium parameters used:

$f = 2450.0$ MHz; $\text{cond} = 1.78$ S/m; $\text{perm} = 40.4$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 02/23/2024; Ambient Temp: 19.3°C; Tissue Temp: 19.4°C

Probe: EX3DV4 - SN7421; ConvF:(7.45,7.45,7.45); Calibrated: 2023-03-16

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

Electronics: DAE4 Sn604; Calibrated: 2023-03-15

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

Measurement SW: DASY Module SAR V16.2.0.1425

2450.0 MHz System Verification at 20.0 dBm (100 mW)

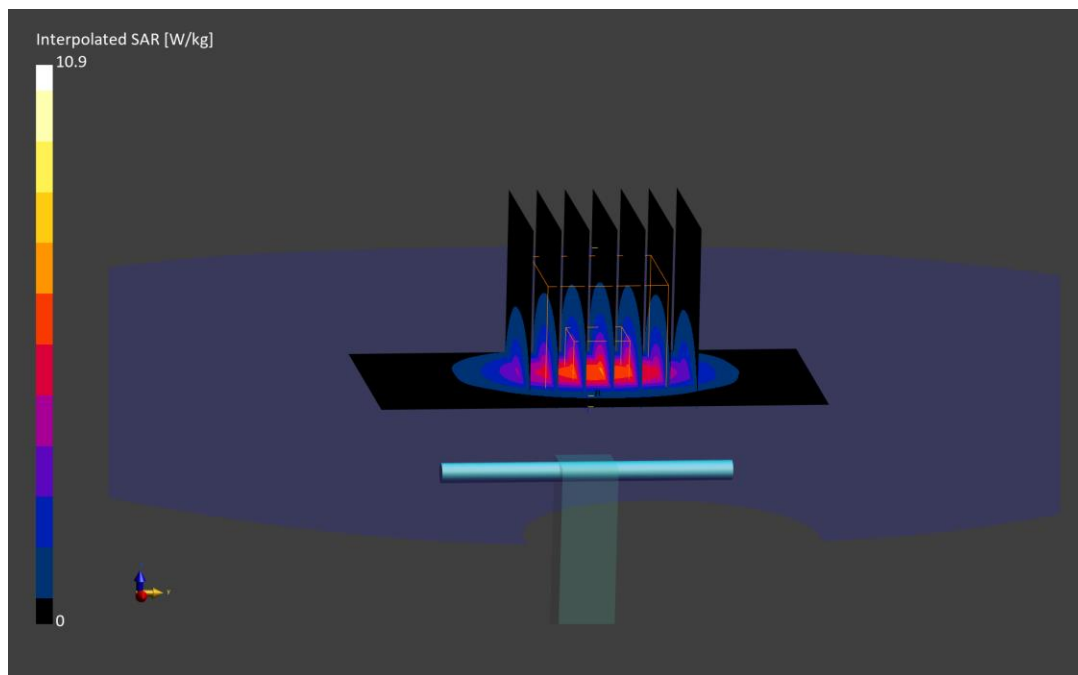
Area Scan (40.0 x 80.0): Measurement grid: $dx=10.0$ mm, $dy=10.0$ mm

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) = 10.9 W/kg

SAR(1 g) = 5.26 W/kg

Deviation (1 g) = -2.95%



ELEMENT

DUT: Dipole 2600.0 MHz; Type: D2600V2 - SN1042

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

Medium: 2450 Head; Medium parameters used:

f = 2600.0 MHz; cond = 2.04 S/m; perm = 37.6; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 01/04/2024; Ambient Temp: 21.1°C; Tissue Temp: 23.4°C

Probe: EX3DV4 - SN7546; ConvF:(7.08,7.08,7.08); Calibrated: 2023-04-14

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

Electronics: DAE4 Sn1402; Calibrated: 2023-04-14

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

Measurement SW: DASY Module SAR V16.2.0.1425

2600.0 MHz System Verification at 20.0 dBm (100 mW)

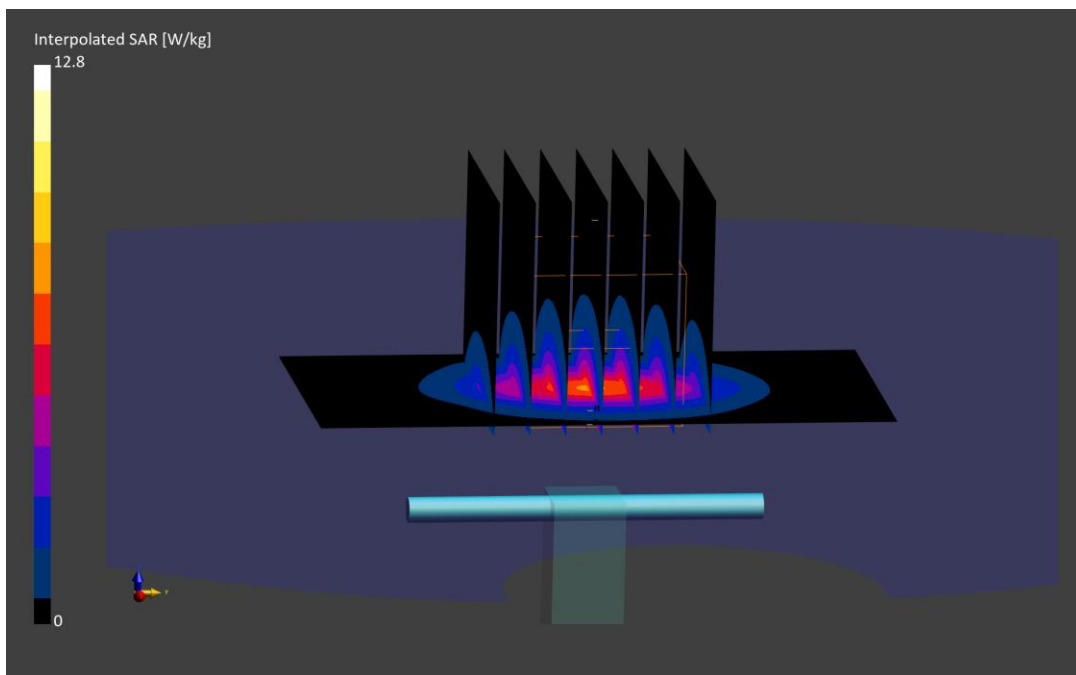
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 12.8 W/kg

SAR(1 g) = 5.72 W/kg

Deviation (1 g) = 2.51%



ELEMENT

DUT: Dipole 2600.0 MHz; Type: D2600V2 - SN1068

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

Medium: 2450 Head; Medium parameters used:

f = 2600.0 MHz; cond = 2.00 S/m; perm = 38.4; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 01/20/2024; Ambient Temp: 21.2°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN7532; ConvF:(7.53,7.53,7.53); Calibrated: 2023-04-18

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

Electronics: DAE4 Sn501; Calibrated: 2023-04-14

Phantom: Twin-SAM V8.0; Serial: 2067

Measurement SW: DASY Module SAR V16.2.0.1425

2600.0 MHz System Verification at 20.0 dBm (100 mW)

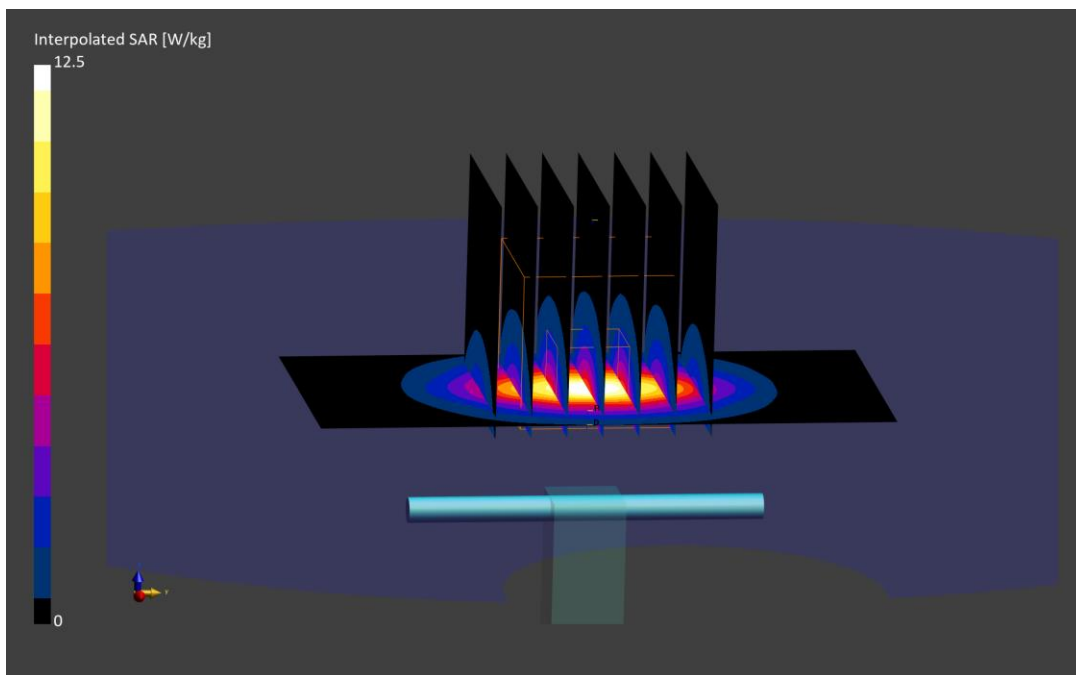
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 12.5 W/kg

SAR(1 g) = 5.52 W/kg

Deviation (1 g) = -2.30%



ELEMENT

DUT: Dipole 2600.0 MHz; Type: D2600V2 - SN1042

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

Medium: 2450 Head; Medium parameters used:

f = 2600.0 MHz; cond = 1.94 S/m; perm = 37.3; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 01/22/2024; Ambient Temp: 21.3°C; Tissue Temp: 24.0°C

Probe: EX3DV4 - SN7546; ConvF:(7.08,7.08,7.08); Calibrated: 2023-04-14

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

Electronics: DAE4 Sn1402; Calibrated: 2023-04-14

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

Measurement SW: DASY Module SAR V16.2.0.1425

2600.0 MHz System Verification at 20.0 dBm (100 mW)

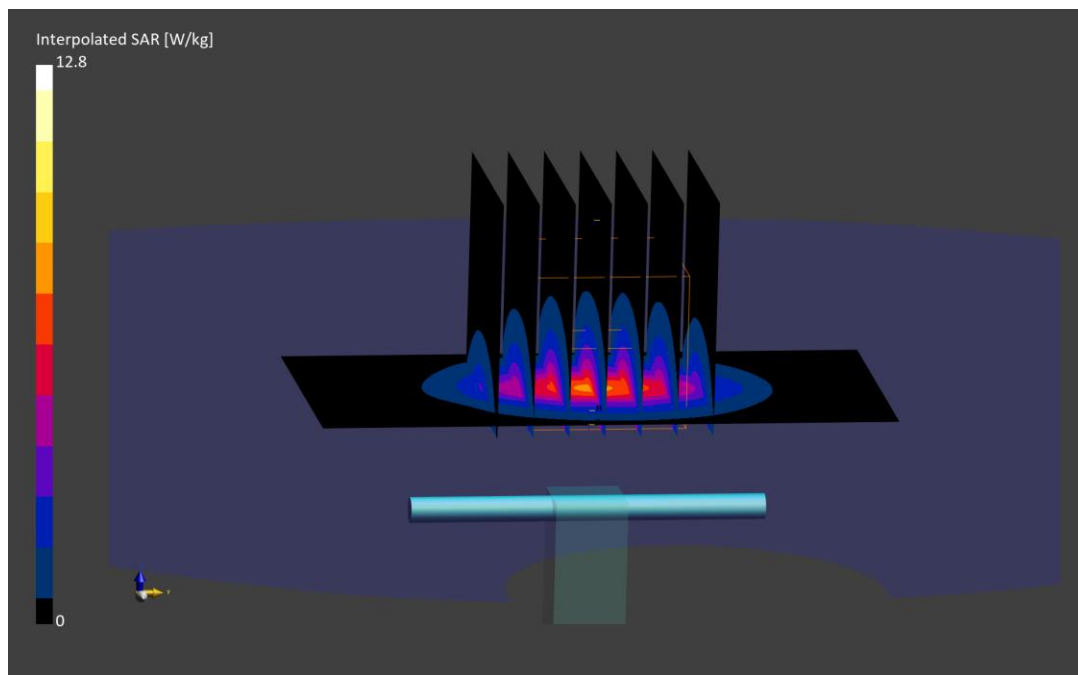
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 12.8 W/kg

SAR(1 g) = 5.81 W/kg

Deviation (1 g) = 4.12%



ELEMENT

DUT: Dipole 2600.0 MHz; Type: D2600V2 - SN1042

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

Medium: 2450 Head; Medium parameters used:

f = 2600.0 MHz; cond = 2.03 S/m; perm = 37.5; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 01/24/2024; Ambient Temp: 22.0°C; Tissue Temp: 24.6°C

Probe: EX3DV4 - SN7546; ConvF:(7.08,7.08,7.08); Calibrated: 2023-04-14

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

Electronics: DAE4 Sn1402; Calibrated: 2023-04-14

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

Measurement SW: DASY Module SAR V16.2.0.1425

2600.0 MHz System Verification at 20.0 dBm (100 mW)

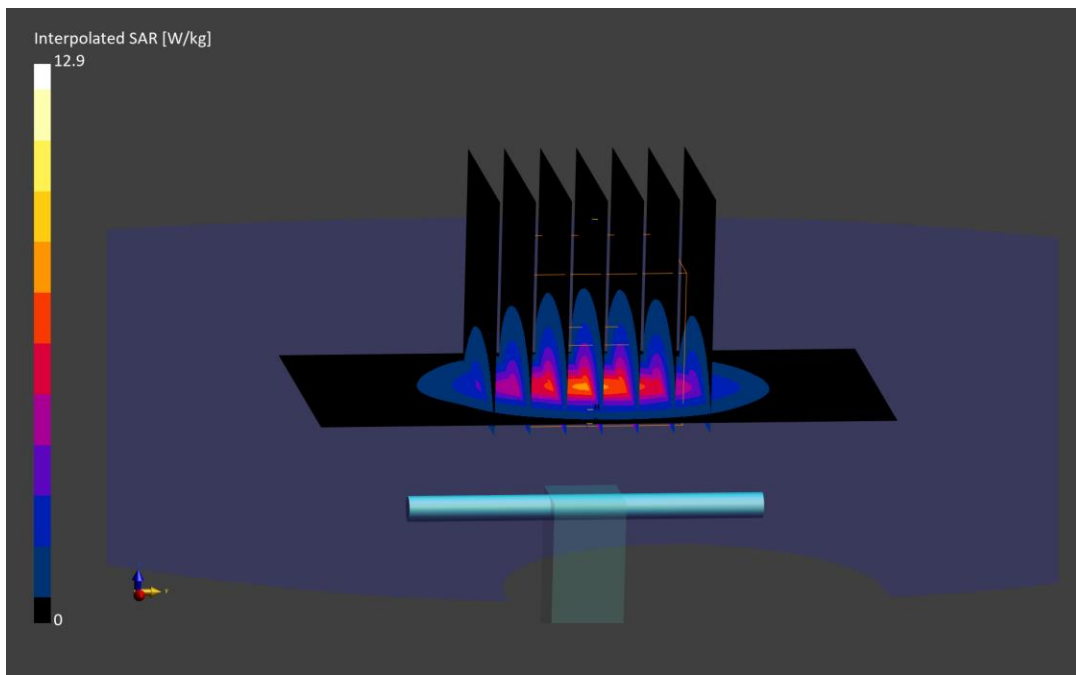
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 12.9 W/kg

SAR(1 g) = 5.89 W/kg

Deviation (1 g) = 5.56%



ELEMENT

DUT: Dipole 3500.0 MHz; Type: D3500V2 - SN1126

Communication System: UID: 0, CW; Frequency: 3500.0 MHz

Medium: 3600 Head; Medium parameters used:

f = 3500.0 MHz; cond = 3.02 S/m; perm = 36.6; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 01/08/2024; Ambient Temp: 20.6°C; Tissue Temp: 19.6°C

Probe: EX3DV4 - SN7782; ConvF:(6.19,6.19,6.19); Calibrated: 2023-09-12

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

Electronics: DAE4 Sn1646; Calibrated: 2023-09-08

Phantom: Twin-SAM V8.0; Serial: 1944

Measurement SW: DASY Module SAR V16.2.0.1425

3500.0 MHz System Verification at 20.0 dBm (100 mW)

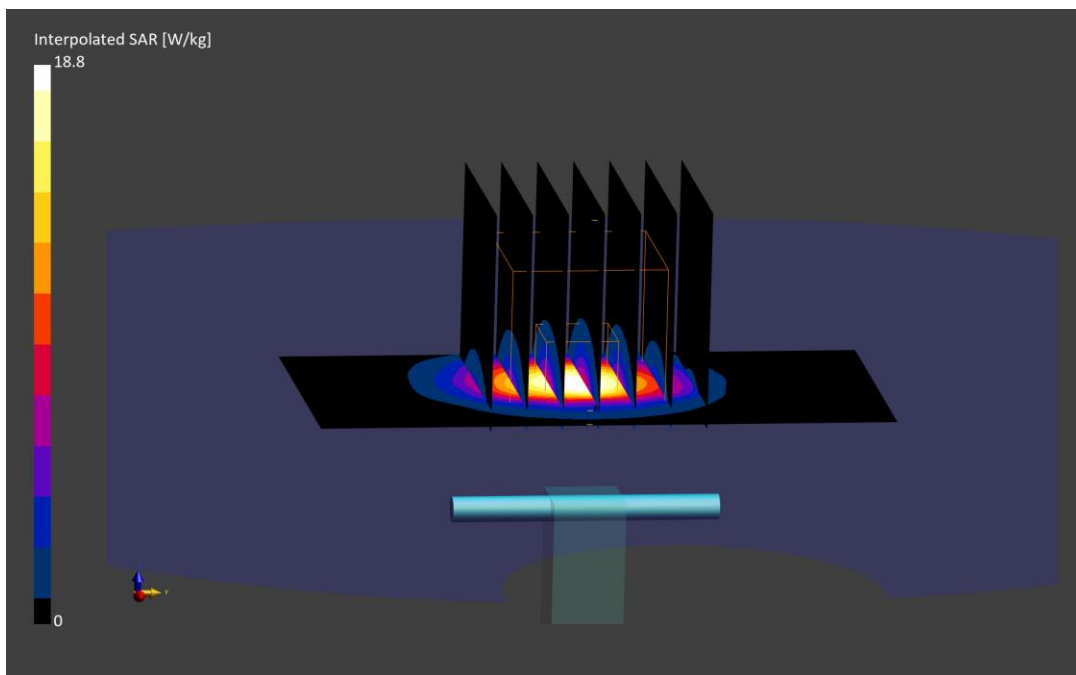
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

Zoom Scan (28.0 x 28.0 x 28.0): Measurement grid: dx=5.0 mm, dy=5.0 mm, dz=1.4 mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 18.8 W/kg

SAR(1 g) = 6.63 W/kg

Deviation (1 g) = -1.04%



ELEMENT

DUT: Dipole 3500.0 MHz; Type: D3500V2 - SN1126

Communication System: UID: 0, CW; Frequency: 3500.0 MHz

Medium: 3600 Head; Medium parameters used:

$f = 3500.0$ MHz; $\text{cond} = 2.97$ S/m; $\text{perm} = 36.4$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 01/11/2024; Ambient Temp: 21.4°C; Tissue Temp: 20.3°C

Probe: EX3DV4 - SN7782; ConvF:(6.19,6.19,6.19); Calibrated: 2023-09-12

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

Electronics: DAE4 Sn1646; Calibrated: 2023-09-08

Phantom: Twin-SAM V8.0; Serial: 1944

Measurement SW: DASY Module SAR V16.2.0.1425

3500.0 MHz System Verification at 20.0 dBm (100 mW)

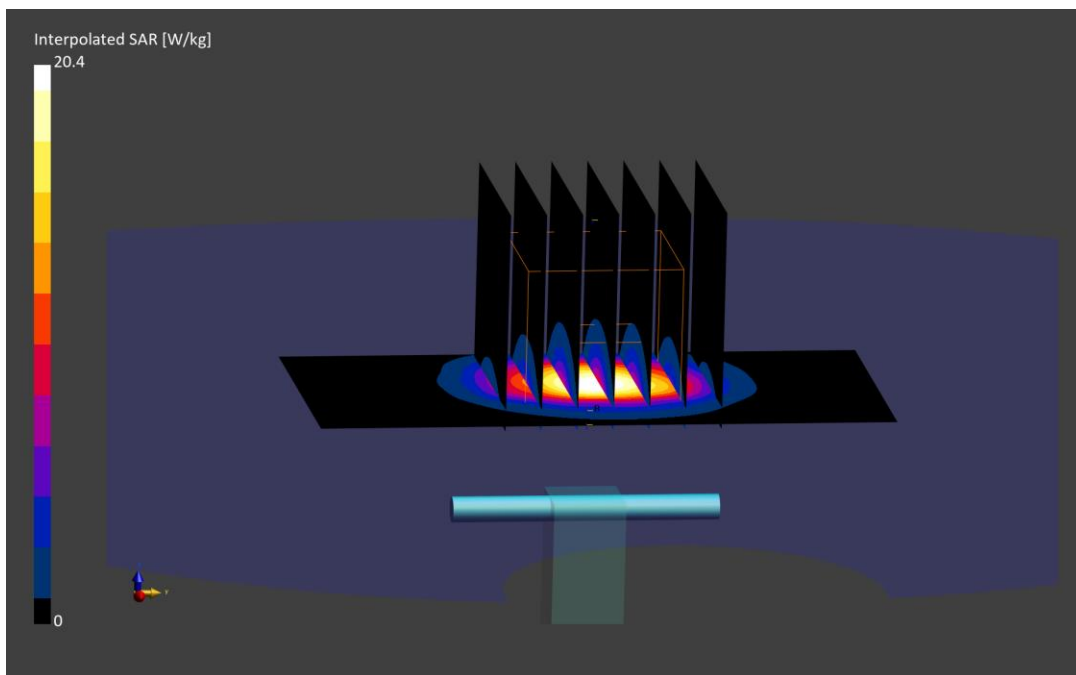
Area Scan (40.0 x 80.0): Measurement grid: $dx=10.0$ mm, $dy=10.0$ mm

Zoom Scan (28.0 x 28.0 x 28.0): Measurement grid: $dx=5.0$ mm, $dy=5.0$ mm, $dz=1.4$ mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 20.4 W/kg

SAR(1 g) = 7.10 W/kg

Deviation (1 g) = 5.97%



ELEMENT

DUT: Dipole 3700.0 MHz; Type: D3700V2 - SN1097

Communication System: UID: 0, CW; Frequency: 3700.0 MHz

Medium: 3600 Head; Medium parameters used:

$f = 3700.0$ MHz; $\text{cond} = 3.18$ S/m; $\text{perm} = 36.3$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 01/08/2024; Ambient Temp: 20.6°C; Tissue Temp: 19.6°C

Probe: EX3DV4 - SN7782; ConvF:(6.18,6.18,6.18); Calibrated: 2023-09-12

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

Electronics: DAE4 Sn1646; Calibrated: 2023-09-08

Phantom: Twin-SAM V8.0; Serial: 1944

Measurement SW: DASY Module SAR V16.2.0.1425

3700.0 MHz System Verification at 20.0 dBm (100 mW)

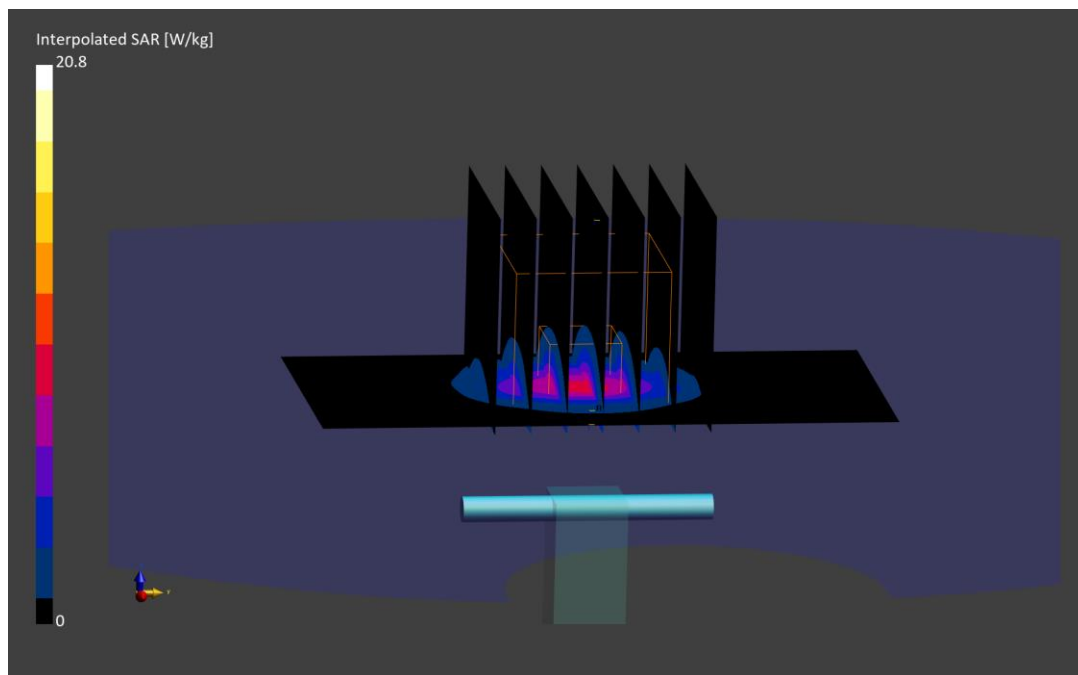
Area Scan (40.0 x 80.0): Measurement grid: $dx=10.0$ mm, $dy=10.0$ mm

Zoom Scan (28.0 x 28.0 x 28.0): Measurement grid: $dx=5.0$ mm, $dy=5.0$ mm, $dz=1.4$ mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 20.8 W/kg

SAR(1 g) = 7.04 W/kg

Deviation (1 g) = 3.38%



ELEMENT

DUT: Dipole 3700.0 MHz; Type: D3700V2 - SN1097

Communication System: UID: 0, CW; Frequency: 3700.0 MHz

Medium: 3600 Head; Medium parameters used:

$f = 3700.0$ MHz; $\text{cond} = 3.12$ S/m; $\text{perm} = 36.2$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 01/11/2024; Ambient Temp: 21.4°C; Tissue Temp: 20.3°C

Probe: EX3DV4 - SN7782; ConvF:(6.18,6.18,6.18); Calibrated: 2023-09-12

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

Electronics: DAE4 Sn1646; Calibrated: 2023-09-08

Phantom: Twin-SAM V8.0; Serial: 1944

Measurement SW: DASY Module SAR V16.2.0.1425

3700.0 MHz System Verification at 20.0 dBm (100 mW)

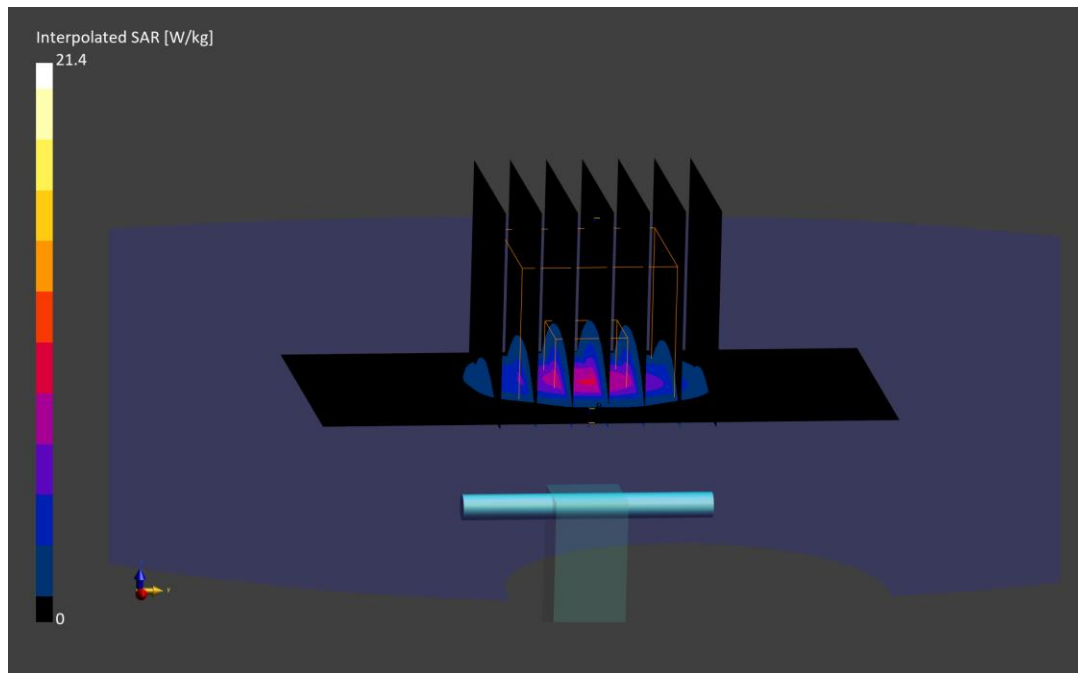
Area Scan (40.0 x 80.0): Measurement grid: $dx=10.0$ mm, $dy=10.0$ mm

Zoom Scan (28.0 x 28.0 x 28.0): Measurement grid: $dx=5.0$ mm, $dy=5.0$ mm, $dz=1.4$ mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 21.4 W/kg

SAR(1 g) = 7.15 W/kg

Deviation (1 g) = 4.99%



ELEMENT

DUT: Dipole 3900.0 MHz; Type: D3900V2 - SN1073

Communication System: UID: 0, CW; Frequency: 3900.0 MHz

Medium: 3600 Head; Medium parameters used:

$f = 3900.0$ MHz; $\text{cond} = 3.35$ S/m; $\text{perm} = 36.0$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 01/08/2024; Ambient Temp: 20.6°C; Tissue Temp: 19.6°C

Probe: EX3DV4 - SN7782; ConvF:(5.65,5.65,5.65); Calibrated: 2023-09-12

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

Electronics: DAE4 Sn1646; Calibrated: 2023-09-08

Phantom: Twin-SAM V8.0; Serial: 1944

Measurement SW: DASY Module SAR V16.2.0.1425

3900.0 MHz System Verification at 20.0 dBm (100 mW)

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

Zoom Scan (28.0 x 28.0 x 28.0): Measurement grid: $dx=5.0$ mm, $dy=5.0$ mm, $dz=1.4$ mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 20.6 W/kg

SAR(1 g) = 7.00 W/kg

Deviation (1 g) = 0.43%



ELEMENT

DUT: Dipole 3900.0 MHz; Type: D3900V2 - SN1073

Communication System: UID: 0, CW; Frequency: 3900.0 MHz

Medium: 3600 Head; Medium parameters used:

f = 3900.0 MHz; cond = 3.29 S/m; perm = 35.9; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 01/11/2024; Ambient Temp: 21.4°C; Tissue Temp: 20.3°C

Probe: EX3DV4 - SN7782; ConvF:(5.65,5.65,5.65); Calibrated: 2023-09-12

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

Electronics: DAE4 Sn1646; Calibrated: 2023-09-08

Phantom: Twin-SAM V8.0; Serial: 1944

Measurement SW: DASY Module SAR V16.2.0.1425

3900.0 MHz System Verification at 20.0 dBm (100 mW)

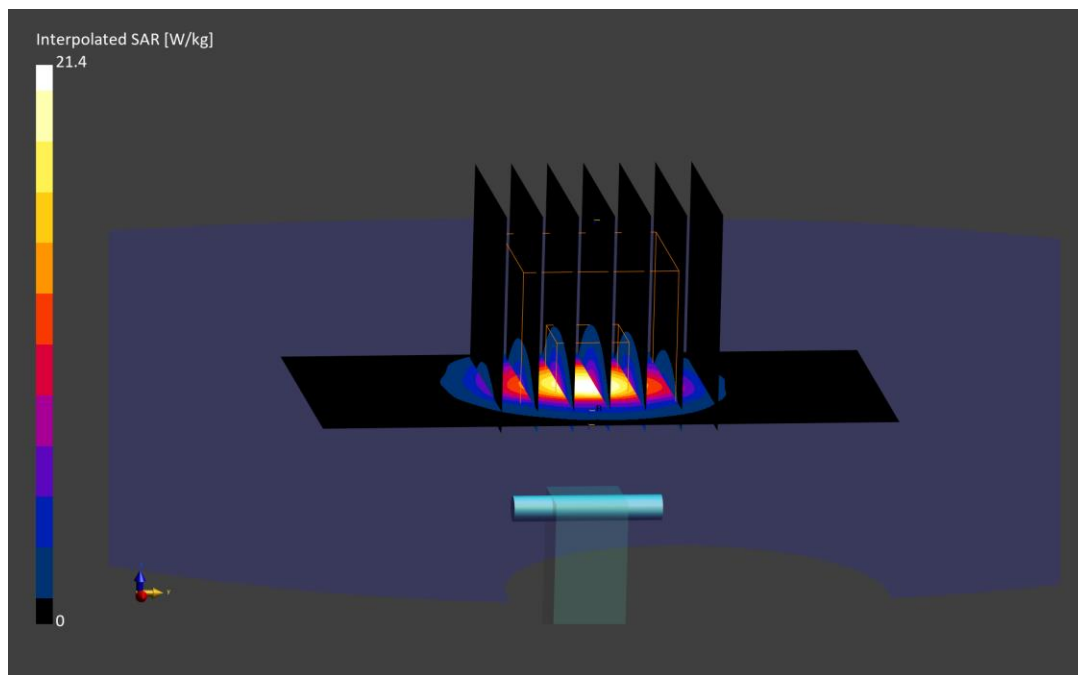
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

Zoom Scan (28.0 x 28.0 x 28.0): Measurement grid: dx=5.0 mm, dy=5.0 mm, dz=1.4 mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 21.4 W/kg

SAR(1 g) = 7.27 W/kg

Deviation (1 g) = 4.30%



ELEMENT

DUT: Dipole 5250.0 MHz; Type: D5GHzV2 - SN1123

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

Medium: 5200-5800 Head; Medium parameters used:

$f = 5250.0$ MHz; $\text{cond} = 4.49$ S/m; $\text{perm} = 35.8$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 01/08/2024; Ambient Temp: 19.0°C; Tissue Temp: 20.0°C

Probe: EX3DV4 - SN3746; ConvF:(5.12,5.12,5.12); Calibrated: 2023-10-16

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

Electronics: DAE4 Sn1237; Calibrated: 2023-10-18

Phantom: Twin-SAM V8.0; Serial: 2027

Measurement SW: DASY Module SAR V16.2.0.1425

5250.0 MHz System Verification at 17.0 dBm (50 mW)

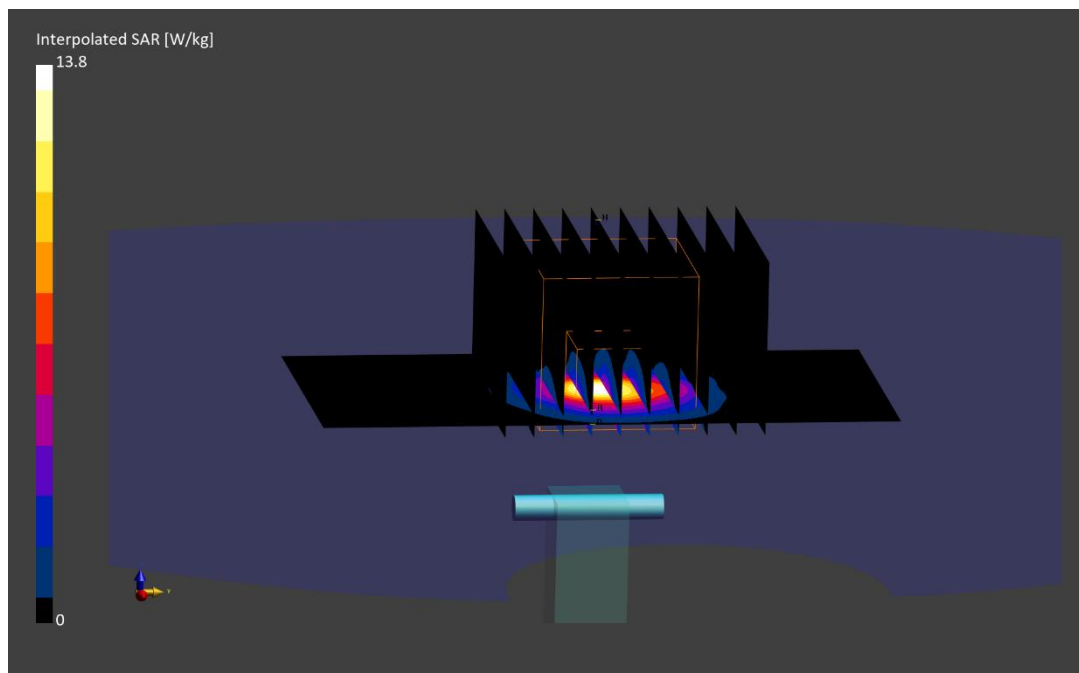
Area Scan (40.0 x 80.0): Measurement grid: $dx=10.0$ mm, $dy=10.0$ mm

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) = 13.8 W/kg

SAR(1 g) = 3.76 W/kg

Deviation (1 g) = -6.58%



ELEMENT

DUT: Dipole 5250.0 MHz; Type: D5GHzV2 - SN1123

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

Medium: 5200-5800 Head; Medium parameters used:

$f = 5250.0$ MHz; $\text{cond} = 4.51$ S/m; $\text{perm} = 35.3$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 01/13/2024; Ambient Temp: 20.9°C; Tissue Temp: 19.0°C

Probe: EX3DV4 - SN3746; ConvF:(5.12,5.12,5.12); Calibrated: 2023-10-16

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

Electronics: DAE4 Sn1237; Calibrated: 2023-10-18

Phantom: Twin-SAM V8.0; Serial: 2027

Measurement SW: DASY Module SAR V16.2.0.1425

5250.0 MHz System Verification at 17.0 dBm (50 mW)

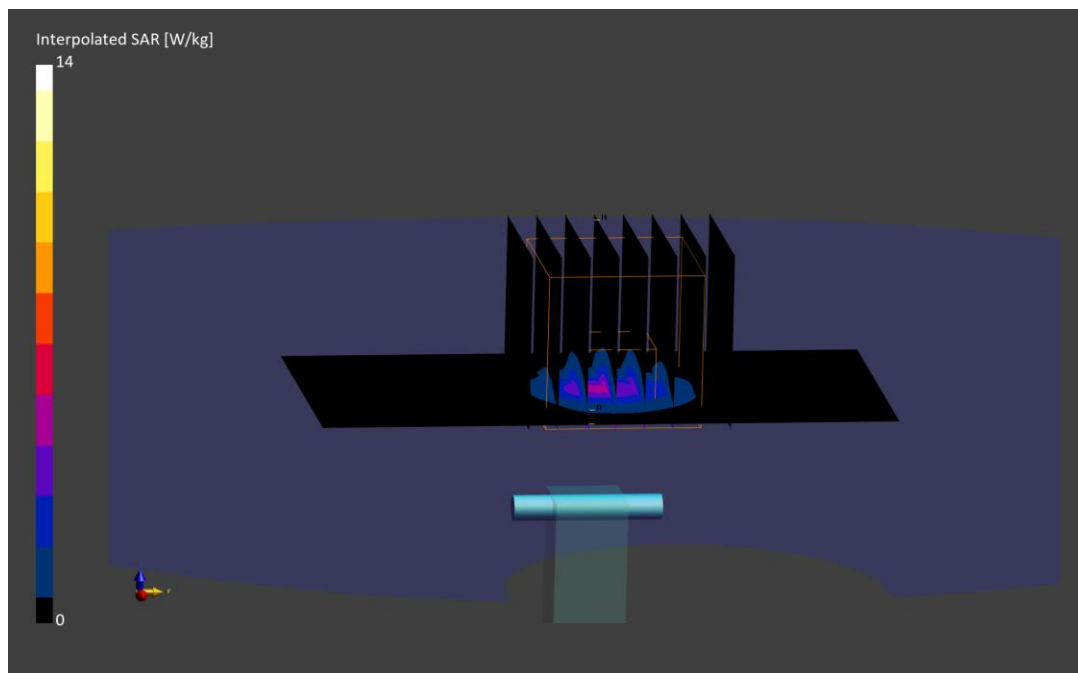
Area Scan (40.0 x 80.0): Measurement grid: $dx=10.0$ mm, $dy=10.0$ mm

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) = 14.0 W/kg

SAR(1 g) = 3.76 W/kg

Deviation (1 g) = -6.58%



ELEMENT

DUT: Dipole 5250.0 MHz; Type: D5GHzV2 - SN1066

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

Medium: 5200-5800 Head; Medium parameters used:

$f = 5250.0$ MHz; $\text{cond} = 4.62$ S/m; $\text{perm} = 35.2$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 03/19/2024; Ambient Temp: 20.1°C; Tissue Temp: 19.5°C

Probe: EX3DV4 - SN7427; ConvF:(4.73,5.26,5.35); 2024-02-09

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

Electronics: DAE4 Sn467; 2024-02-09

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

Measurement SW: DASY Module SAR V16.2.0.1425

5250.0 MHz System Verification at 17.0 dBm (50 mW)

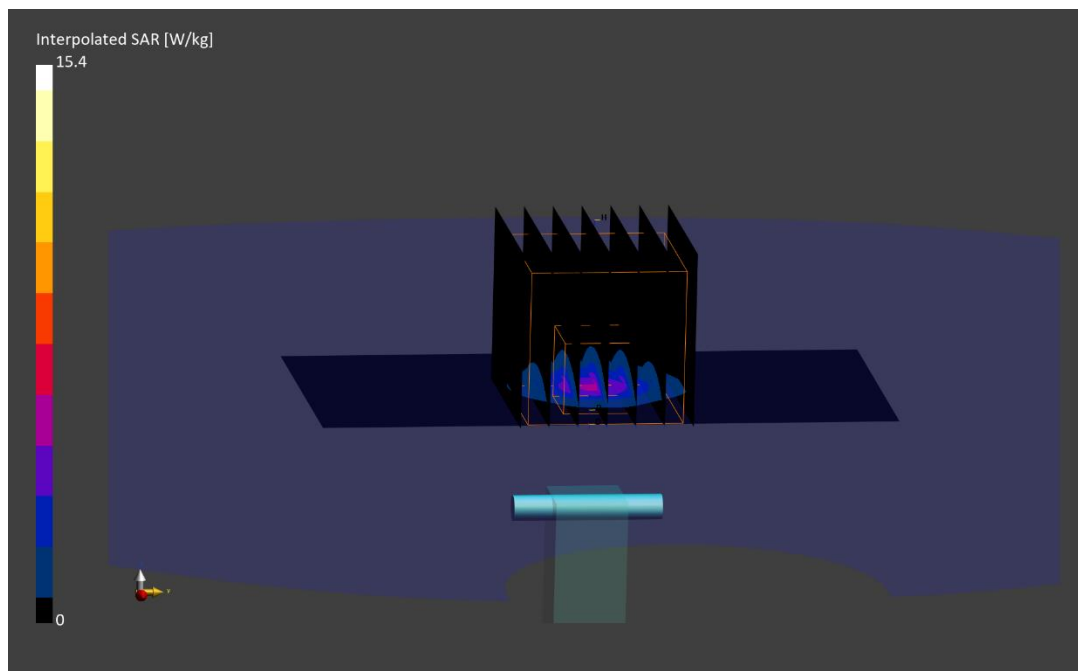
Area Scan (40.0 x 80.0): Measurement grid: $dx=10.0$ mm, $dy=10.0$ mm

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) = 15.4 W/kg

SAR(1 g) = 3.85 W/kg

Deviation (1 g) = -4.11%



ELEMENT

DUT: Dipole 5600.0 MHz; Type: D5GHzV2 - SN1123

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

Medium: 5200-5800 Head; Medium parameters used:

$f = 5600.0$ MHz; $\text{cond} = 4.88$ S/m; $\text{perm} = 35.2$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 01/08/2024; Ambient Temp: 19.0°C; Tissue Temp: 20.0°C

Probe: EX3DV4 - SN3746; ConvF:(4.45,4.45,4.45); Calibrated: 2023-10-16

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

Electronics: DAE4 Sn1237; Calibrated: 2023-10-18

Phantom: Twin-SAM V8.0; Serial: 2027

Measurement SW: DASY Module SAR V16.2.0.1425

5600.0 MHz System Verification at 17.0 dBm (50 mW)

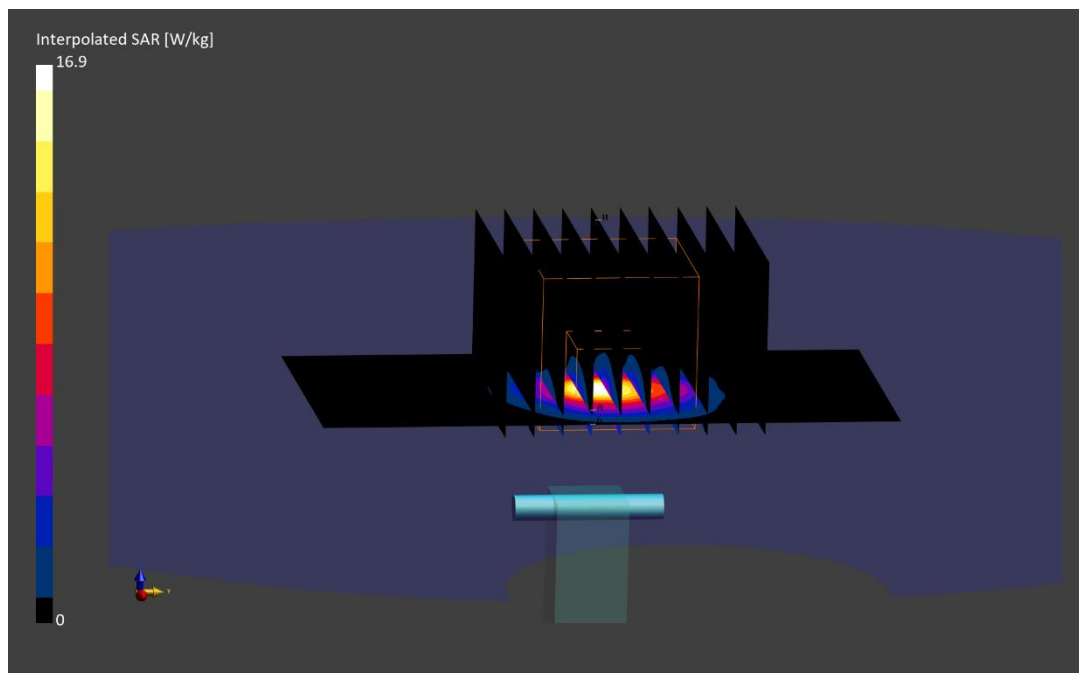
Area Scan (40.0 x 80.0): Measurement grid: $dx=10.0$ mm, $dy=10.0$ mm

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) = 16.9 W/kg

SAR(1 g) = 4.26 W/kg

Deviation (1 g) = 1.79%



ELEMENT

DUT: Dipole 5600.0 MHz; Type: D5GHzV2 - SN1123

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

Medium: 5200-5800 Head; Medium parameters used:

f = 5600.0 MHz; cond = 4.89 S/m; perm = 34.7; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 01/13/2024; Ambient Temp: 20.9°C; Tissue Temp: 19.0°C

Probe: EX3DV4 - SN3746; ConvF:(4.45,4.45,4.45); 2023-10-16

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

Electronics: DAE4 Sn1237; 2023-10-18

Phantom: Twin-SAM V8.0; Serial: 2027

Measurement SW: DASY Module SAR V16.2.0.1425

5600.0 MHz System Verification at 17.0 dBm (50 mW)

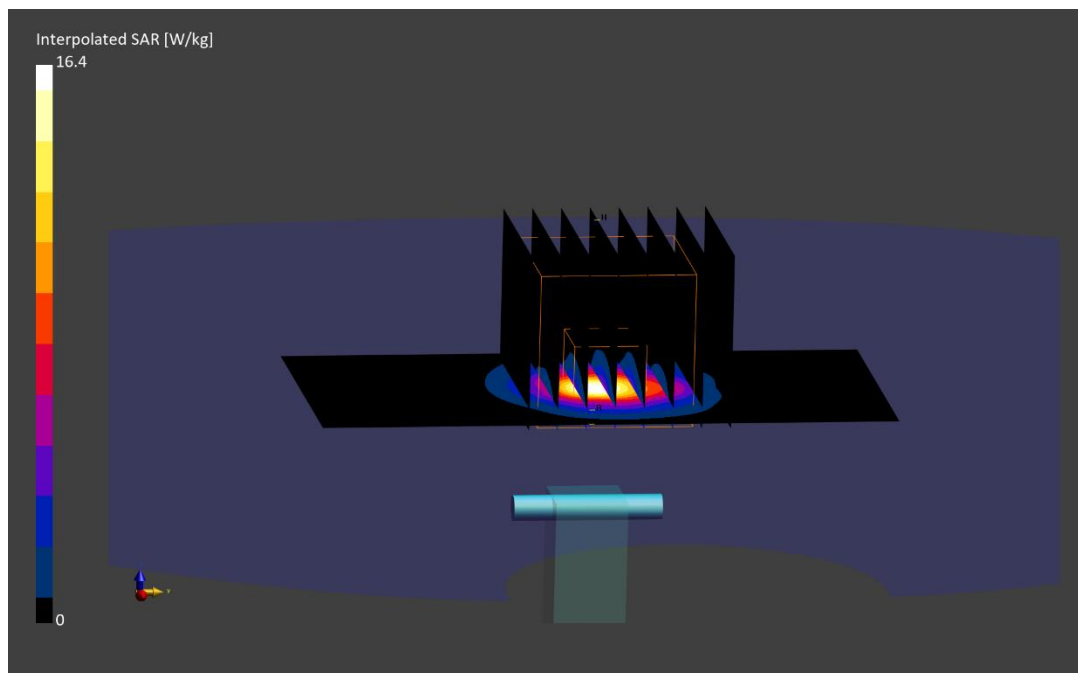
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 4.00 W/kg

Deviation (1 g) = -4.42%



ELEMENT

DUT: Dipole 5600.0 MHz; Type: D5GHzV2 - SN1066

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

Medium: 5200-5800 Head; Medium parameters used:

$f = 5600.0$ MHz; $\text{cond} = 5.01$ S/m; $\text{perm} = 34.5$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 03/19/2024; Ambient Temp: 20.1°C; Tissue Temp: 19.5°C

Probe: EX3DV4 - SN7427; ConvF:(4.18,4.62,4.72); 2024-02-09

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

Electronics: DAE4 Sn467; 2024-02-09

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

Measurement SW: DASY Module SAR V16.2.0.1425

5600.0 MHz System Verification at 17.0 dBm (50 mW)

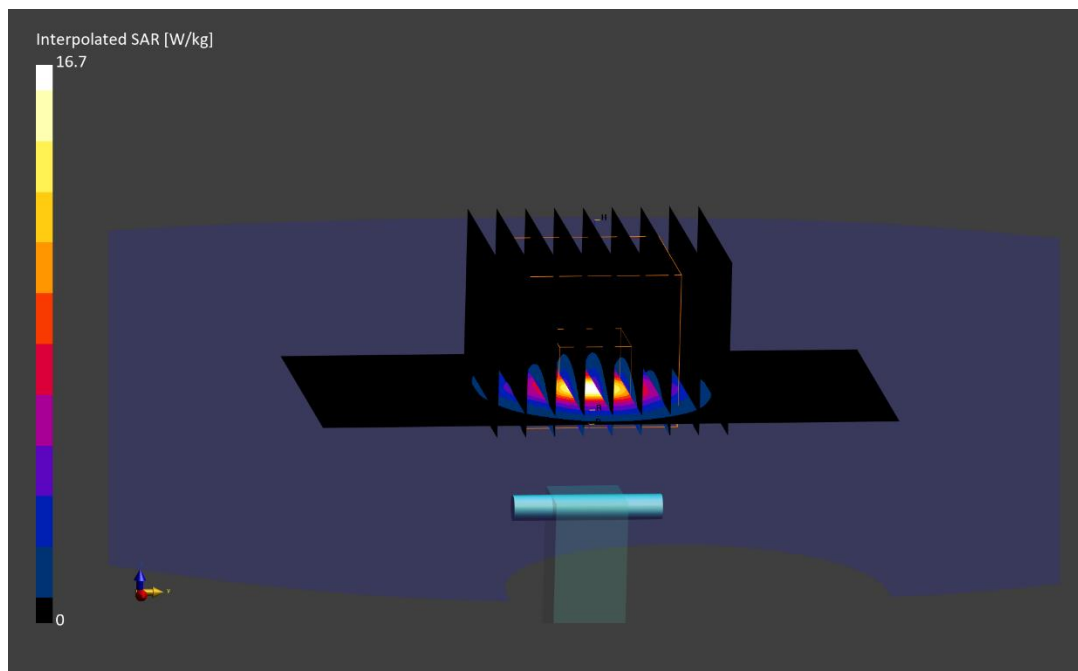
Area Scan (40.0 x 80.0): Measurement grid: $dx=10.0$ mm, $dy=10.0$ mm

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) = 16.7 W/kg

SAR(1 g) = 4.07 W/kg

Deviation (1 g) = -2.98%



ELEMENT

DUT: Dipole 5750.0 MHz; Type: D5GHzV2 - SN1123

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

Medium: 5200-5800 Head; Medium parameters used:

f = 5750.0 MHz; cond = 5.06 S/m; perm = 34.9; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 01/08/2024; Ambient Temp: 19.0°C; Tissue Temp: 20.0°C

Probe: EX3DV4 - SN3746; ConvF:(4.59,4.59,4.59); Calibrated: 2023-10-16

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

Electronics: DAE4 Sn1237; Calibrated: 2023-10-18

Phantom: Twin-SAM V8.0; Serial: 2027

Measurement SW: DASY Module SAR V16.2.0.1425

5750.0 MHz System Verification at 17.0 dBm (50 mW)

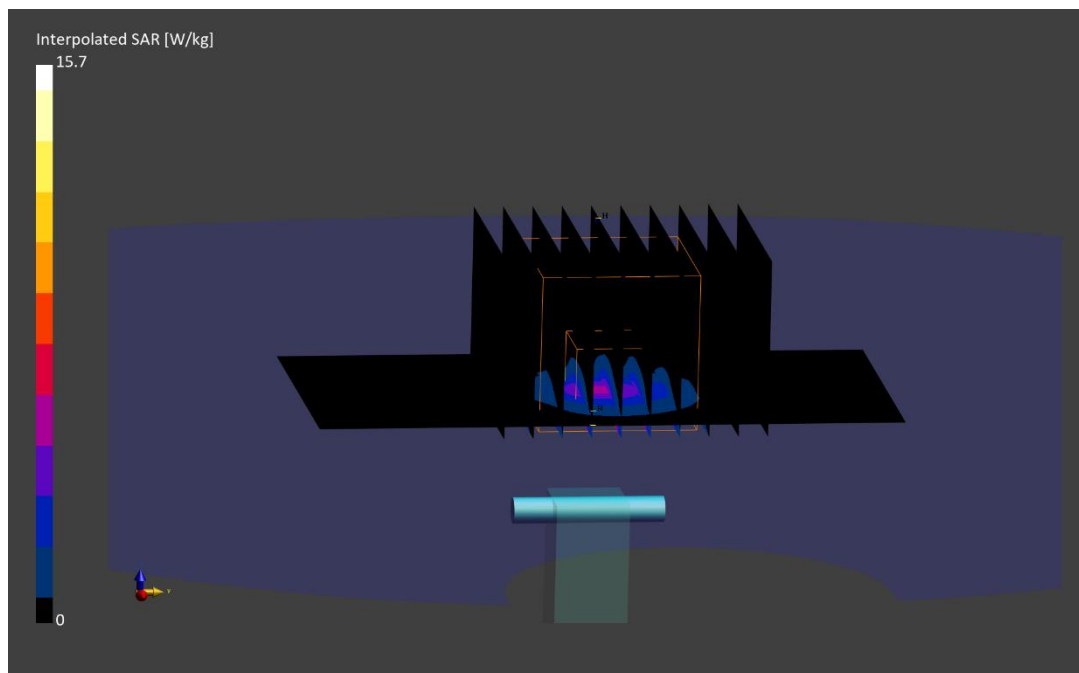
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 15.7 W/kg

SAR(1 g) = 3.86 W/kg

Deviation (1 g) = -4.10%



ELEMENT

DUT: Dipole 5750.0 MHz; Type: D5GHzV2 - SN1123

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

Medium: 5200-5800 Head; Medium parameters used:

$f = 5750.0$ MHz; $\text{cond} = 5.07$ S/m; $\text{perm} = 34.4$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 01/13/2024; Ambient Temp: 20.9°C; Tissue Temp: 19.0°C

Probe: EX3DV4 - SN3746; ConvF:(4.59,4.59,4.59); 2023-10-16

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

Electronics: DAE4 Sn1237; 2023-10-18

Phantom: Twin-SAM V8.0; Serial: 2027

Measurement SW: DASY Module SAR V16.2.0.1425

5750.0 MHz System Verification at 17.0 dBm (50 mW)

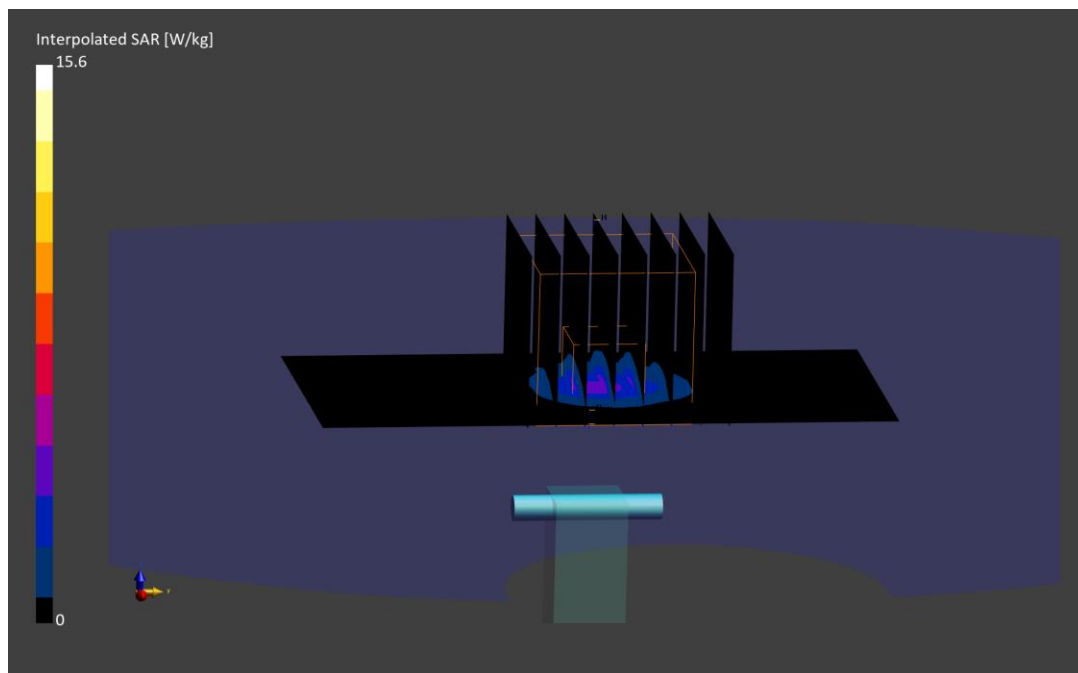
Area Scan (40.0 x 80.0): Measurement grid: $dx=10.0$ mm, $dy=10.0$ mm

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) = 15.6 W/kg

SAR(1 g) = 3.72 W/kg

Deviation (1 g) = -7.58%



ELEMENT

DUT: Dipole 5750.0 MHz; Type: D5GHzV2 - SN1066

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

Medium: 5200-5800 Head; Medium parameters used:

$f = 5750.0$ MHz; $\text{cond} = 5.19$ S/m; $\text{perm} = 34.3$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 03/19/2024; Ambient Temp: 20.1°C; Tissue Temp: 19.5°C

Probe: EX3DV4 - SN7427; ConvF:(4.35,4.78,4.93); 2024-02-09

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

Electronics: DAE4 Sn467; 2024-02-09

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

Measurement SW: DASY Module SAR V16.2.0.1425

5750.0 MHz System Verification at 17.0 dBm (50 mW)

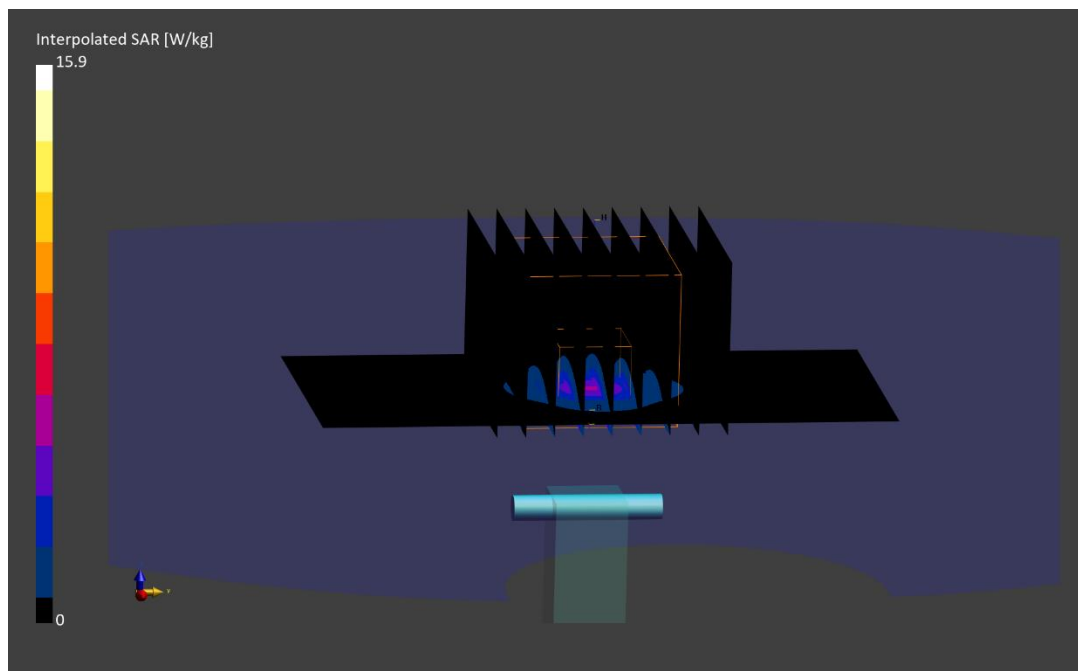
Area Scan (40.0 x 80.0): Measurement grid: $dx=10.0$ mm, $dy=10.0$ mm

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) = 15.9 W/kg

SAR(1 g) = 3.70 W/kg

Deviation (1 g) = -6.92%



ELEMENT

DUT: Dipole 5800.0 MHz; Type: D5GHzV2 - SN1123

Communication System: UID: 0, CW; Frequency: 5800.0 MHz

Medium: 5200-5800 Head; Medium parameters used:

f = 5800.0 MHz; cond = 5.11 S/m; perm = 34.8; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 01/08/2024; Ambient Temp: 19.0°C; Tissue Temp: 20.0°C

Probe: EX3DV4 - SN3746; ConvF:(4.5,4.5,4.5); Calibrated: 2023-10-16

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

Electronics: DAE4 Sn1237; Calibrated: 2023-10-18

Phantom: Twin-SAM V8.0; Serial: 2027

Measurement SW: DASY Module SAR V16.2.0.1425

5800.0 MHz System Verification at 17.0 dBm (50 mW)

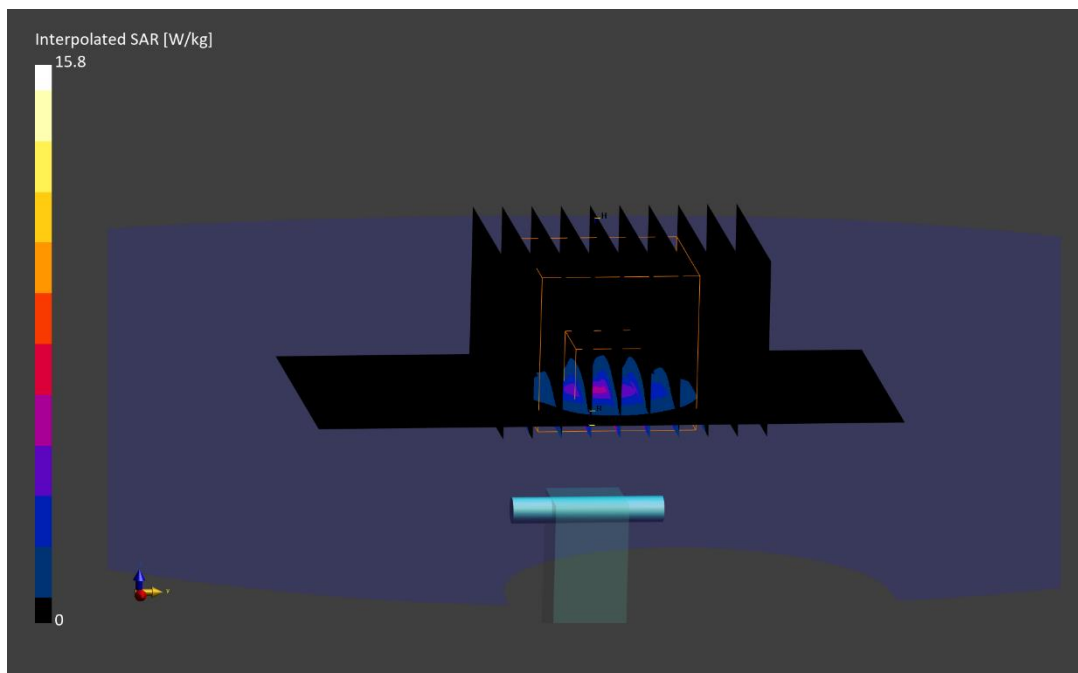
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 15.8 W/kg

SAR(1 g) = 3.82 W/kg

Deviation (1 g) = -5.09%



ELEMENT

DUT: Dipole 5800.0 MHz; Type: D5GHzV2 - SN1123

Communication System: UID: 0, CW; Frequency: 5800.0 MHz

Medium: 5200-5800 Head; Medium parameters used:

f = 5800.0 MHz; cond = 5.12 S/m; perm = 34.3; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 01/13/2024; Ambient Temp: 20.9°C; Tissue Temp: 19.0°C

Probe: EX3DV4 - SN3746; ConvF:(4.5,4.5,4.5); 2023-10-16

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

Electronics: DAE4 Sn1237; 2023-10-18

Phantom: Twin-SAM V8.0; Serial: 2027

Measurement SW: DASY Module SAR V16.2.0.1425

5800.0 MHz System Verification at 17.0 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) = 15.9 W/kg

SAR(1 g) = 3.75 W/kg; SAR(10 g) = 1.06 W/kg

Deviation (1 g) = -6.83%; Deviation (10 g) = -5.78%



ELEMENT

DUT: Dipole 5850.0 MHz; Type: D5GHzV2 - SN1066

Communication System: UID: 0, CW; Frequency: 5850.0 MHz
Medium: 5200-5800 Head; Medium parameters used:
 $f = 5850.0$ MHz; $\text{cond} = 5.30$ S/m; $\text{perm} = 34.1$; $\text{density} = 1000$ kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 03/19/2024; Ambient Temp: 20.1°C; Tissue Temp: 19.5°C

Probe: EX3DV4 - SN7427; ConvF:(4.04,4.57,4.63); 2024-02-09
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn467; 2024-02-09
Phantom: Twin-SAM V8.0; Serial: 2070
Measurement SW: DASY Module SAR V16.2.0.1425

5850.0 MHz System Verification at 17.0 dBm (50 mW)

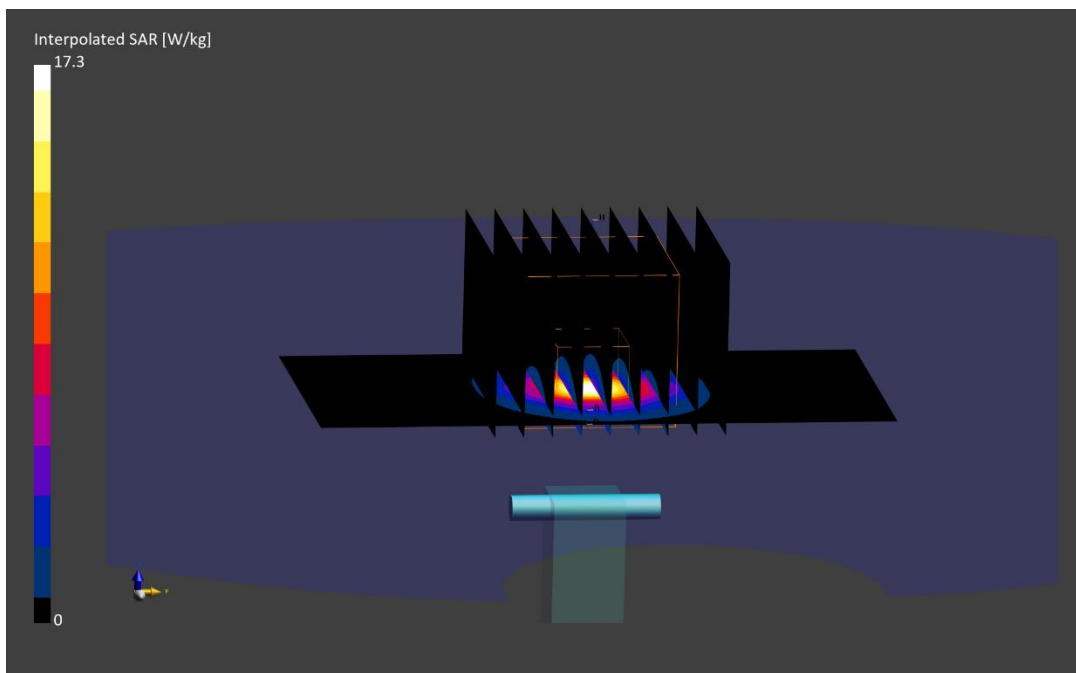
Area Scan (40.0 x 80.0): Measurement grid: $dx=10.0$ mm, $dy=10.0$ mm

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) = 17.3 W/kg

SAR(1 g) = 4.02 W/kg

Deviation (1 g) = -2.19%



ELEMENT

DUT: Dipole 6500.0 MHz; Type: D6.5GHzV2 - SN1019

Communication System: UID: 0, CW; Frequency: 6500.0 MHz

Medium: 6000 Head; Medium parameters used:

$f = 6500.0$ MHz; $\text{cond} = 5.97$ S/m; $\text{perm} = 33.6$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 5 mm

Test Date: 01/08/2024; Ambient Temp: 21.5°C; Tissue Temp: 19.0°C

Probe: EX3DV4 - SN7420; ConvF:(5.21,5.12,5.28); Calibrated: 2023-10-16

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

Electronics: DAE4 Sn1333; Calibrated: 2023-10-18

Phantom: Twin-SAM V4.0 Serial: 1275

Measurement SW: DASY Module SAR V16.2.0.1425

6500.0 MHz System Verification at 14.0 dBm (25 mW)

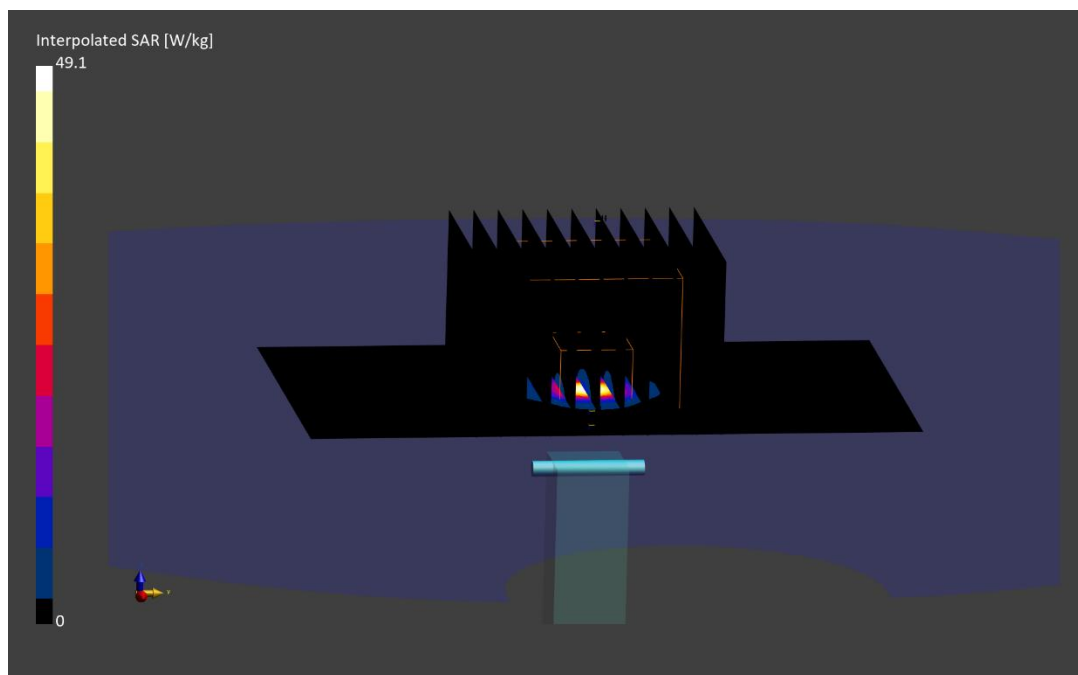
Area Scan (51.0 x 85.0): Measurement grid: $dx=8.5$ mm, $dy=8.5$ mm

Zoom Scan (22.0 x 22.0 x 22.0): Measurement grid: $dx=3.4$ mm, $dy=3.4$ mm, $dz=1.4$ mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 49.1 W/kg

SAR(1 g) = 7.76 W/kg

Deviation (1 g) = 5.94%



ELEMENT

Date: 01/31/2024

10 GHz System Verification

Device Under Test Properties

DUT	Serial Number
10 GHz Verification Source	1002

Exposure Conditions

Phantom Section	Position	Test Distance [mm]	Band	Frequency [MHz]
5G	FRONT	10.00	Validation band	10000.0

Hardware Setup

Probe, Calibration Date	DAE, Calibration Date
EUmmWV3 - SN9407, 10/09/2023	DAE4 - SN793, 10/18/2023

Software Setup

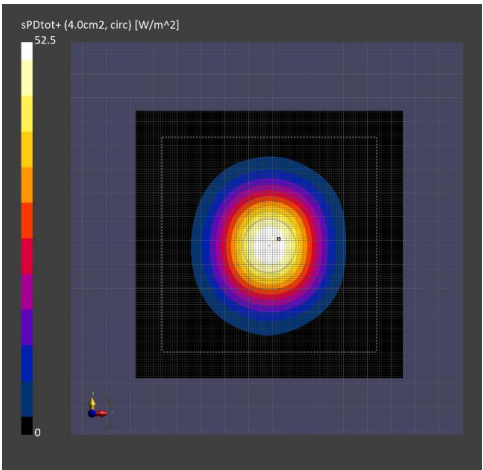
Software	Software Version
cDASY6 Module mmWave	3.2.0.1840

Scans Setup

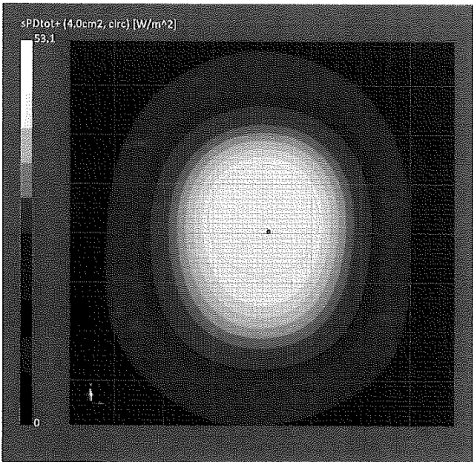
Scan Type	5G Scan
Grid Extents [mm]	60.0 x 60.0
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	10.0

Measurement Results

Scan Type	5G Scan
Avg. Area [cm²]	4.00
pS _{tot} avg [W/m²]	52.5
pS _n avg [W/m²]	52.4
E _{peak} [V/m]	147
Deviation [dB] pS _{tot}	-0.049
Deviation [dB] pS _n	-0.033



10 GHz System Verification



Calibration Certificate