

APPENDIX B: SYSTEM VERIFICATION

ELEMENT

DUT: Dipole 750.0 MHz; Type: D750V3 - SN1094

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

Medium: 750 Head; Medium parameters used:

f = 750.0 MHz; cond = 0.893 S/m; perm = 42.3; density = 1000 kg/m³

Phantom Section: Flat; Space: 15 mm

Test Date: 07/05/2022; Ambient Temp: 24.5°C; Tissue Temp: 21.0°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 (200 mW)

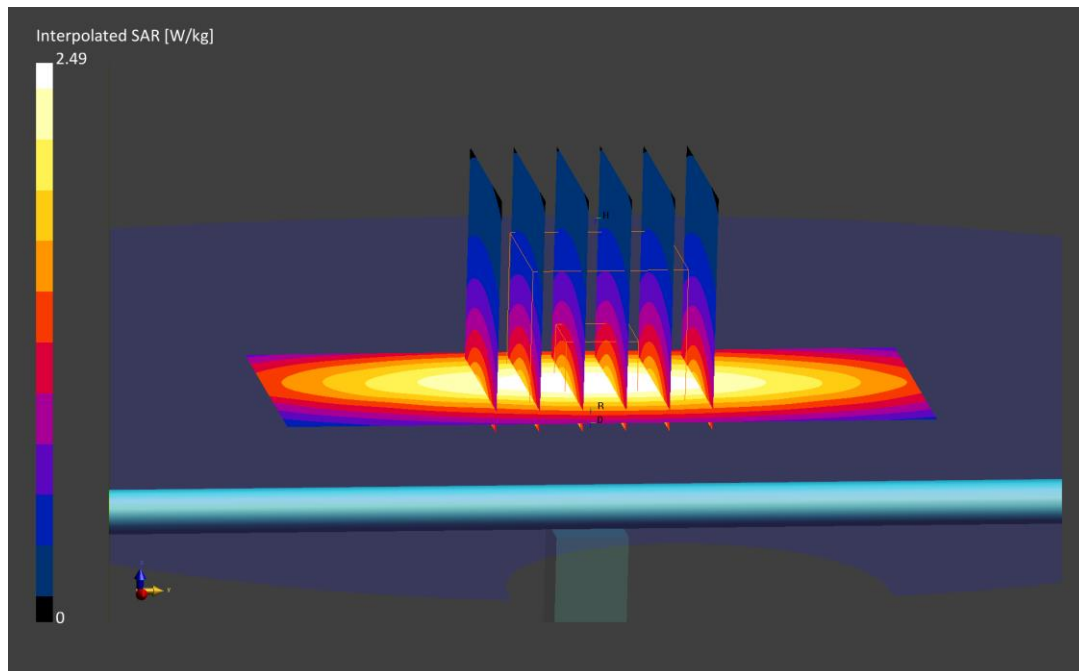
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 1.64 W/kg

Deviation (1 g) = -3.19%



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; $\text{cond} = 0.892$ S/m; $\text{perm} = 42.6$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 15 mm

Test Date: 07/12/2022; Ambient Temp: 24.0°C; Tissue Temp: 20.7°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 (200 mW)

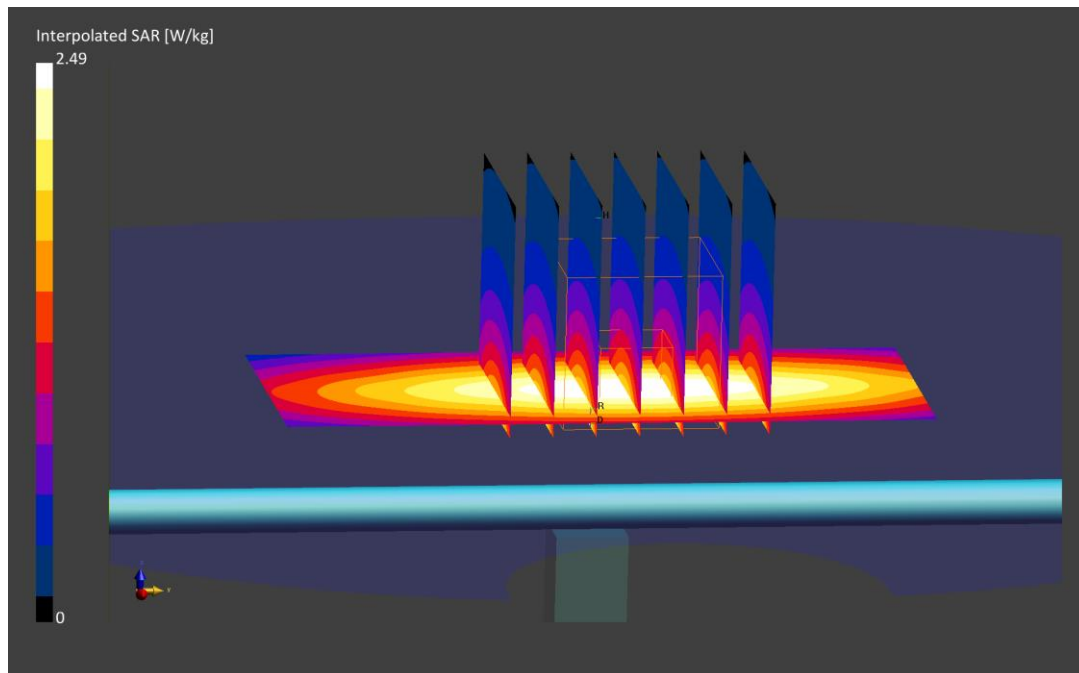
Area Scan (40.0 x 90.0): Measurement grid: $dx=10.0$ mm, $dy=15.0$ mm

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) = 1.62 W/kg

Deviation (1 g) = -1.34%



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; $\text{cond} = 0.895$ S/m; $\text{perm} = 40.6$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 15 mm

Test Date: 07/14/2022; Ambient Temp: 24.1°C; Tissue Temp: 21.7°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 (200 mW)

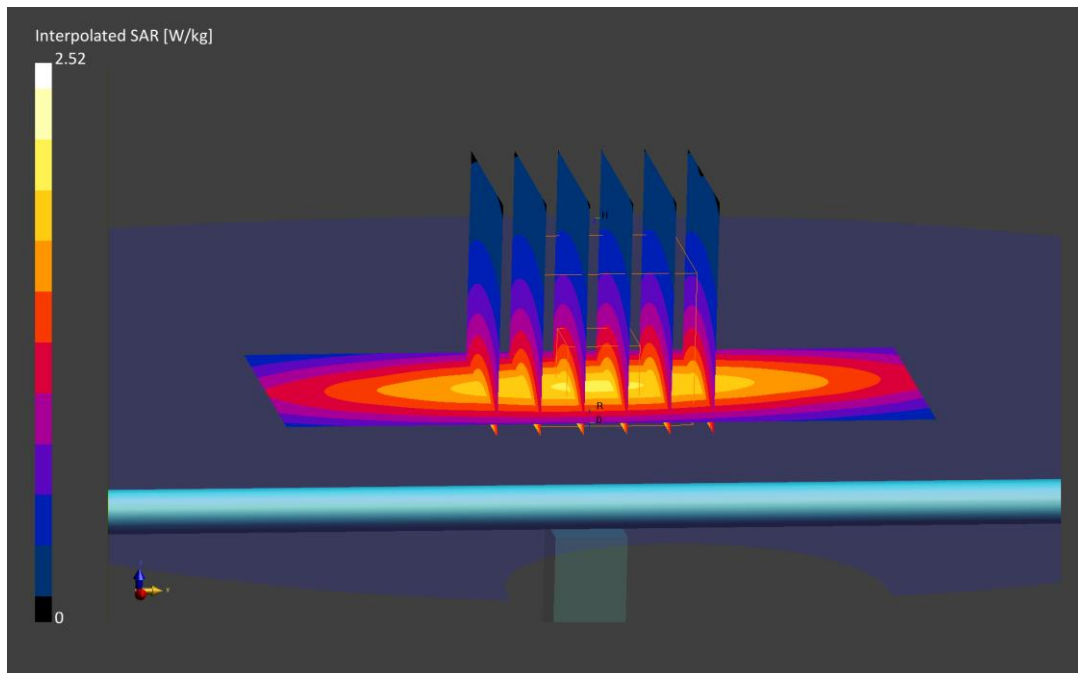
Area Scan (40.0 x 90.0): Measurement grid: $dx=10.0$ mm, $dy=15.0$ mm

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) = 2.53 W/kg

SAR (1 g) = 1.67 W/kg

Deviation (1 g) = 1.71%



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; $\text{cond} = 0.901$ S/m; $\text{perm} = 40.5$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 15 mm

Test Date: 07/25/2022; Ambient Temp: 21.8°C; Tissue Temp: 20.5°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 (200 mW)

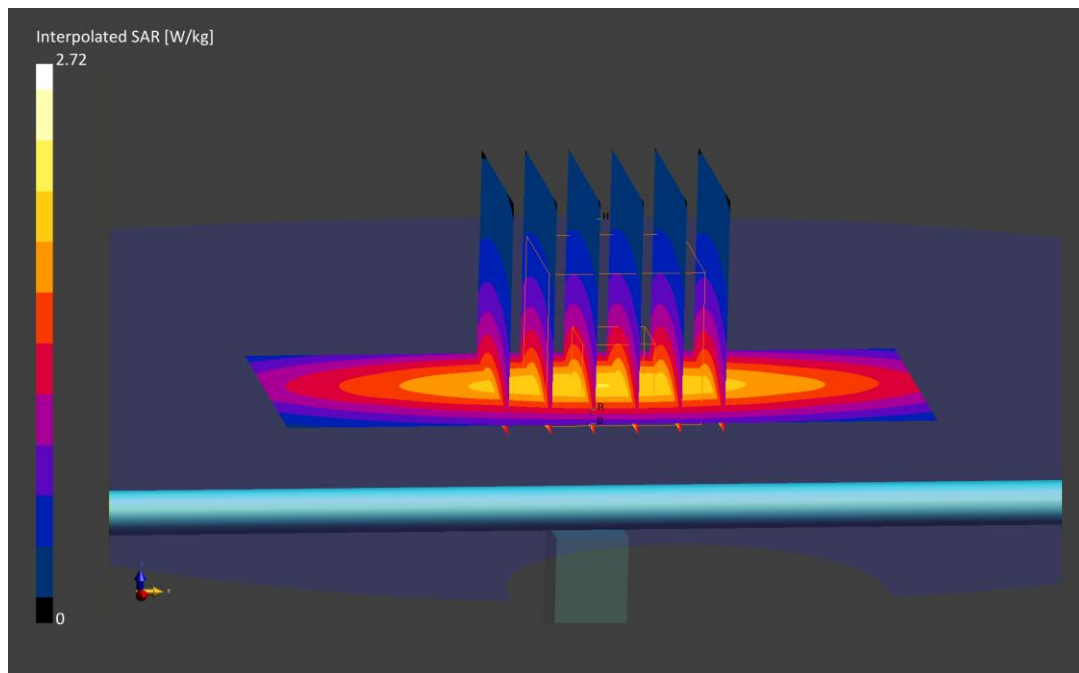
Area Scan (40.0 x 90.0): Measurement grid: $dx=10.0$ mm, $dy=15.0$ mm

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) = 2.72 W/kg

SAR (1 g) = 1.77 W/kg

Deviation (1 g) = 4.00%



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; $\text{cond} = 0.875$ S/m; $\text{perm} = 40.5$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 15 mm

Test Date: 07/03/2022; Ambient Temp: 21.0°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN7674; ConvF:(9.72,9.72,9.72); Calibrated: 2021-09-06

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

Electronics: DAE4 Sn1582; Calibrated: 2022-04-13

Phantom: Twin-SAM V8.0; Serial: 1917

Measurement SW: DASY Module SAR V16.0.2.136

835 MHz System Verification at 23 dBm (200 mW)

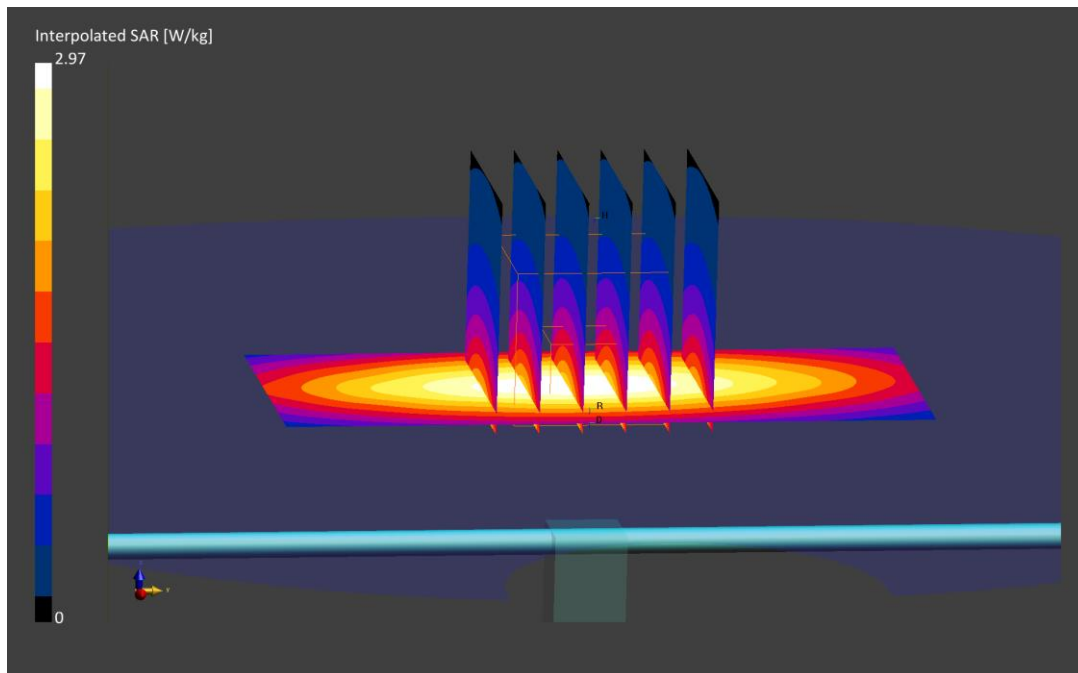
Area Scan (40.0 x 90.0): Measurement grid: $dx=10.0$ mm, $dy=15.0$ mm

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) = 2.97 W/kg

SAR (1 g) = 1.90 W/kg

Deviation (1 g) = -2.96%



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; $\text{cond} = 0.892$ S/m; $\text{perm} = 41.4$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 15 mm

Test Date: 07/05/2022; Ambient Temp: 24.5°C; Tissue Temp: 22.3°C

Probe: EX3DV4 - SN7674; ConvF:(9.72,9.72,9.72); Calibrated: 2021-09-06

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

Electronics: DAE4 Sn1582; Calibrated: 2022-04-13

Phantom: Twin-SAM V8.0; Serial: 1917

Measurement SW: DASY Module SAR V16.0.2.136

835 MHz System Verification at 23 dBm (200 mW)

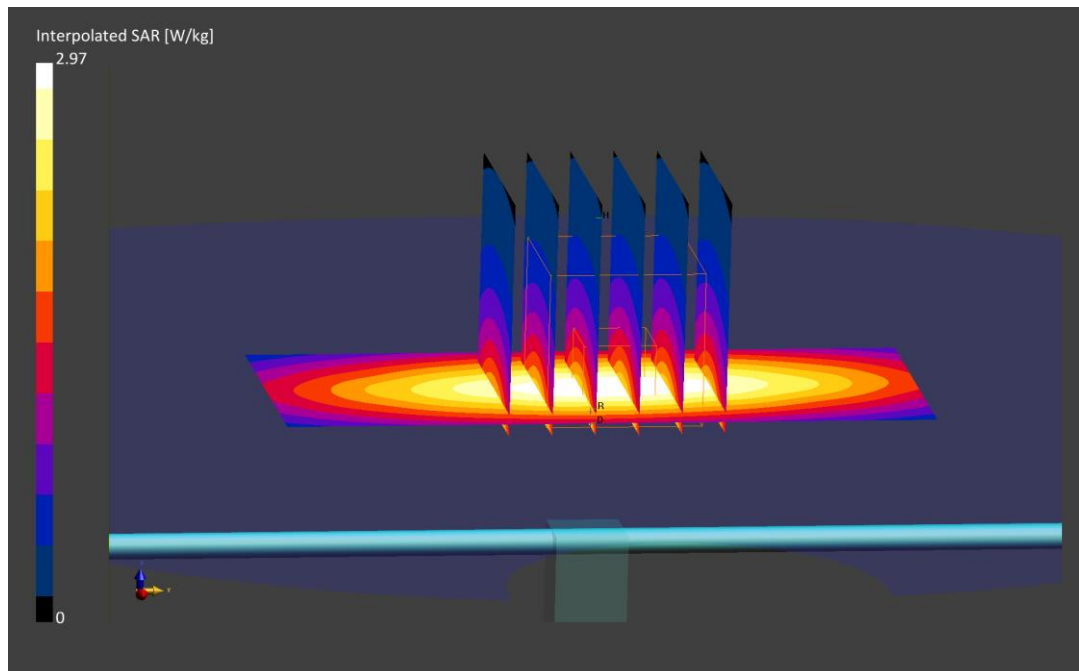
Area Scan (40.0 x 90.0): Measurement grid: $dx=10.0$ mm, $dy=15.0$ mm

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) = 2.97 W/kg

SAR (1 g) = 1.92 W/kg

Deviation (1 g) = -1.94%



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; $\text{cond} = 0.890$ S/m; $\text{perm} = 40.0$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 15 mm

Test Date: 07/07/2022; Ambient Temp: 20.9°C; Tissue Temp: 22.0°C

Probe: EX3DV4 - SN7674; ConvF:(9.72,9.72,9.72); Calibrated: 2021-09-06

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

Electronics: DAE4 Sn1582; Calibrated: 2022-04-13

Phantom: Twin-SAM V8.0; Serial: 1917

Measurement SW: DASY Module SAR V16.0.2.136

835 MHz System Verification at 23 dBm (200 mW)

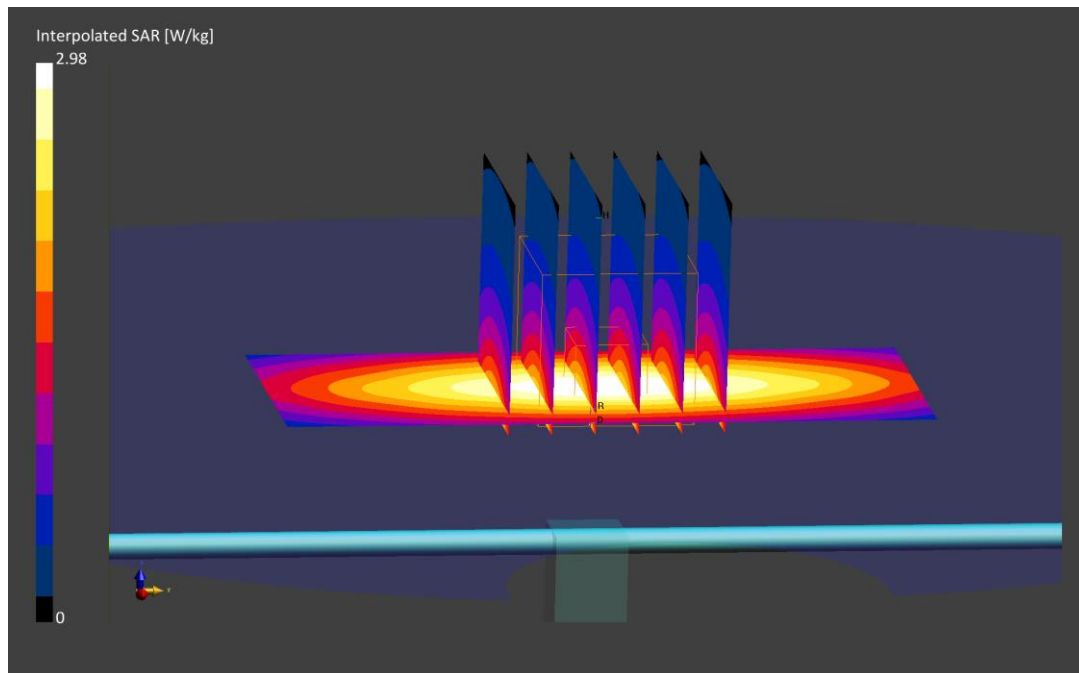
Area Scan (40.0 x 90.0): Measurement grid: $dx=10.0$ mm, $dy=15.0$ mm

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) = 1.92 W/kg

Deviation (1 g) = -1.94%



ELEMENT

DUT: Dipole 1750.0 MHz; Type: D1750V2 - SN1083

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/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 07/24/2022; Ambient Temp: 19.5°C; Tissue Temp: 19.0°C

Probe: EX3DV4 - SN7546; ConvF:(8.54,8.54,8.54); 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

1750 MHz System Verification at 20 dBm (100 mW)

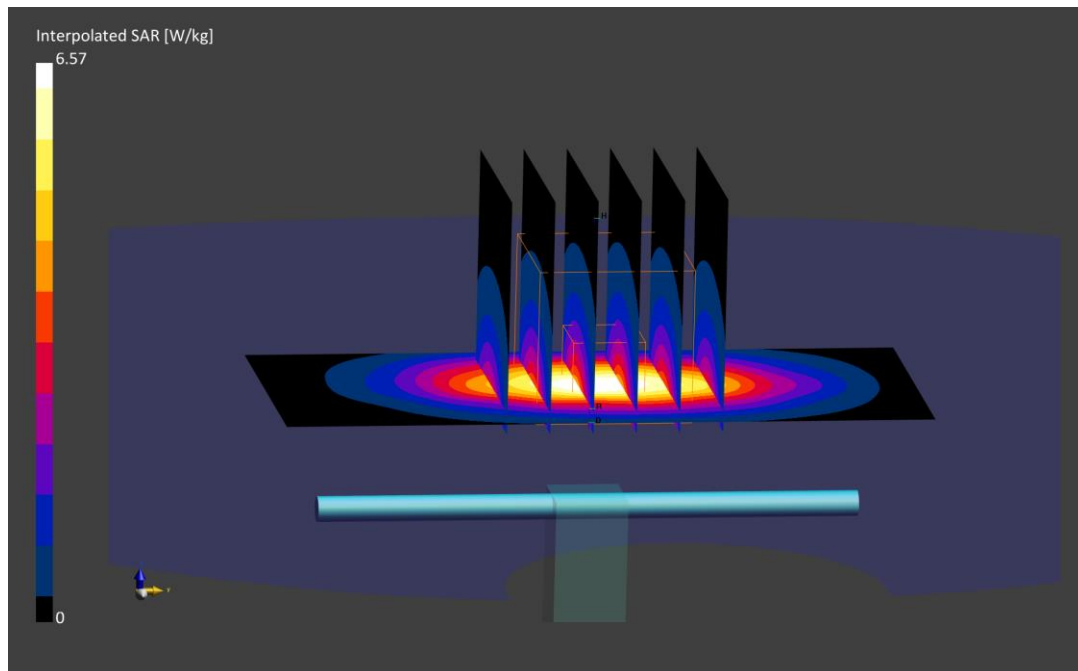
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 6.57 W/kg

SAR (1 g) = 3.49 W/kg

Deviation (1 g) = -4.38%



ELEMENT

DUT: Dipole 1750.0 MHz; Type: D1750V2 - SN1083

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

Medium: 1750 Head; Medium parameters used:

f = 1750.0 MHz; cond = 1.33 S/m; perm = 38.4; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 07/26/2022; Ambient Temp: 20.6°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN7546; ConvF:(8.54,8.54,8.54); 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

1750 MHz System Verification at 20 dBm (100 mW)

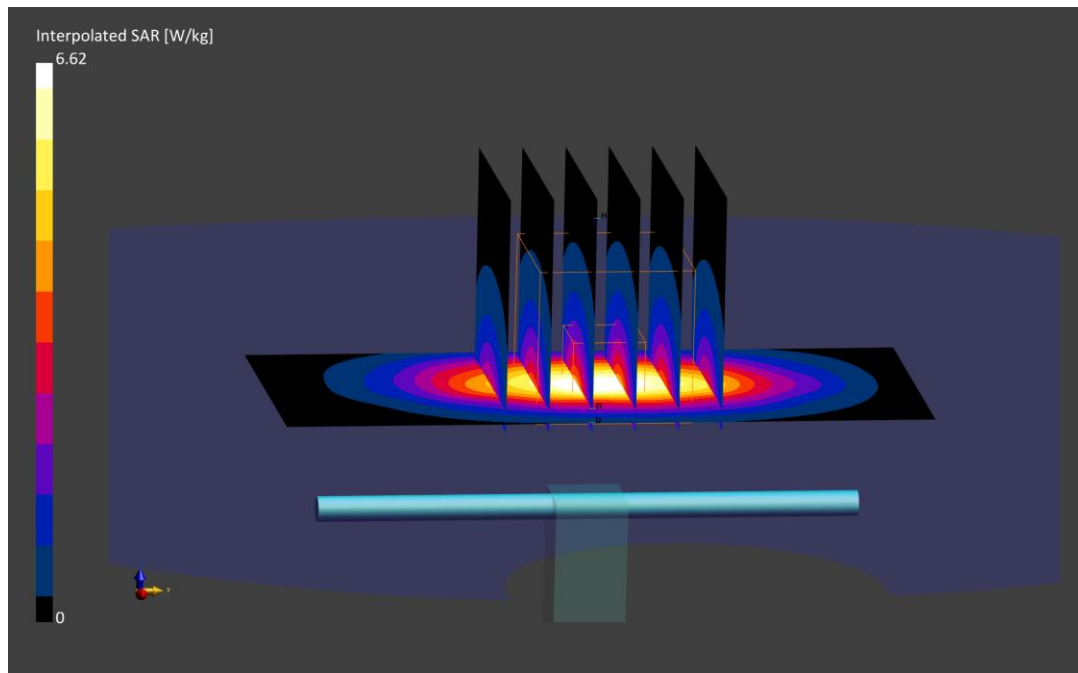
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 6.62 W/kg

SAR (1 g) = 3.51 W/kg

Deviation (1 g) = -3.84%



ELEMENT

DUT: Dipole 1750.0 MHz; Type: D1750V2 - SN1104

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

Medium: 1750 Head; Medium parameters used:

f = 1750.0 MHz; cond = 1.35 S/m; perm = 38.6; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 08/07/2022; Ambient Temp: 23.4°C; Tissue Temp: 22.1°C

Probe: EX3DV4 - SN7360; ConvF:(9.0,9.0,9.0); Calibrated: 2022-03-21

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

Electronics: DAE4 Sn534; Calibrated: 2022-03-21

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

Measurement SW: DASY Module SAR V16.0.2.136

1750 MHz System Verification at 20 dBm (100 mW)

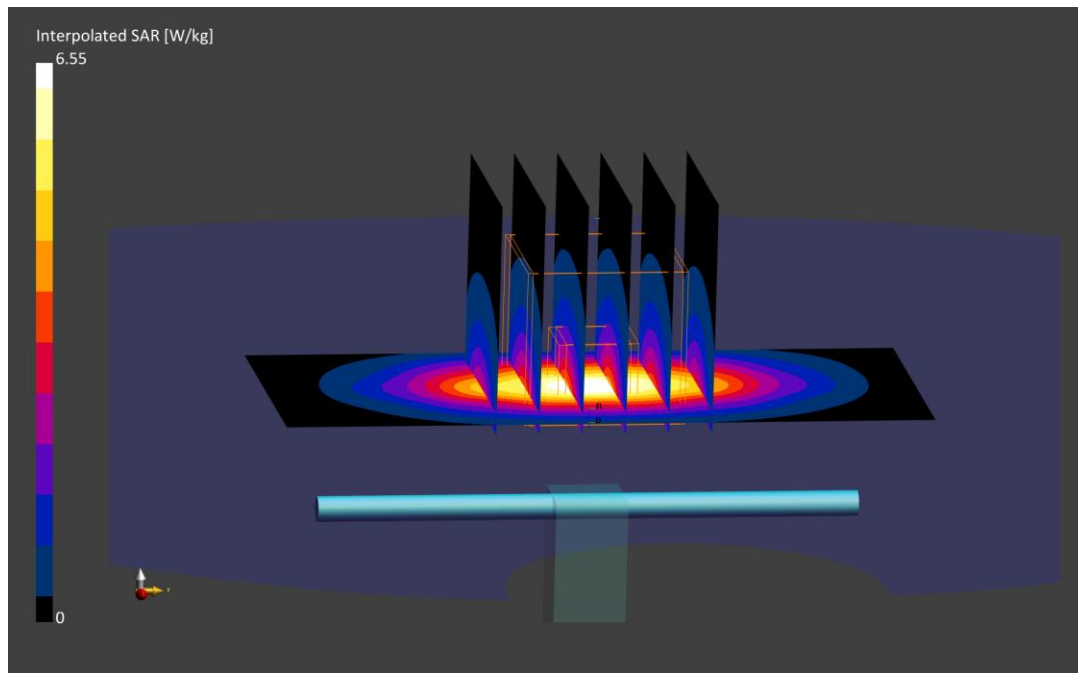
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 6.55 W/kg

SAR (1 g) = 3.38 W/kg

Deviation (1 g) = -5.32%



ELEMENT

DUT: Dipole 1900.0 MHz; Type: D1900V2 - SN5d181

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 = 38.6; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 07/03/2022; Ambient Temp: 20.8°C; Tissue Temp: 20.3°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 (100 mW)

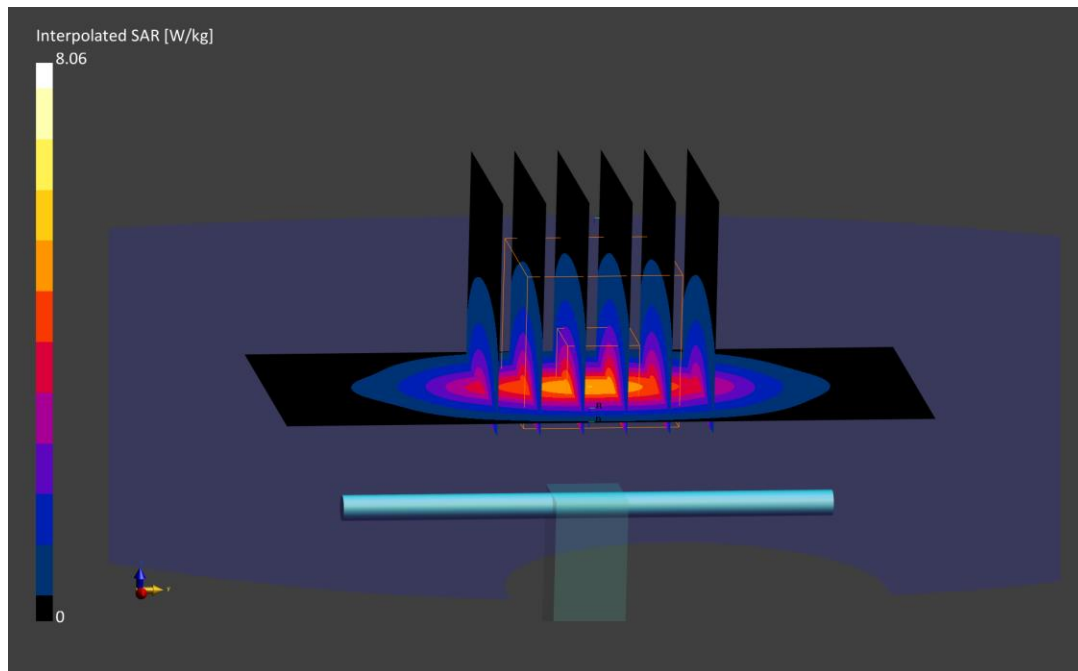
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 8.06 W/kg

SAR (1 g) = 4.21 W/kg

Deviation (1 g) = 4.99%



ELEMENT

DUT: Dipole 1900.0 MHz; Type: D1900V2 - SN5d181

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

Medium: 1900 Head; Medium parameters used:

f = 1900.0 MHz; cond = 1.46 S/m; perm = 38.9; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 07/05/2022; Ambient Temp: 21.6°C; Tissue Temp: 21.7°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 (100 mW)

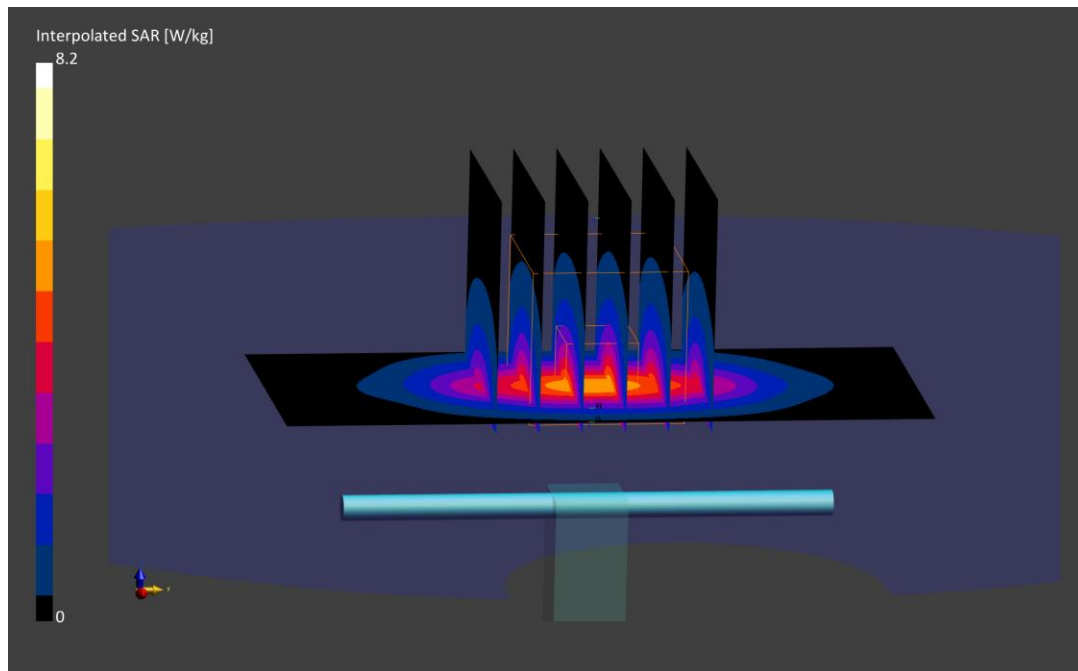
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 8.20 W/kg

SAR (1 g) = 4.28 W/kg

Deviation (1 g) = 6.73%



ELEMENT

DUT: Dipole 1900.0 MHz; Type: D1900V2 - SN5d181

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

Medium: 1900 Head; Medium parameters used:

f = 1900.0 MHz; cond = 1.45 S/m; perm = 38.3; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 07/10/2022; Ambient Temp: 20.3°C; Tissue Temp: 20.2°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 (100 mW)

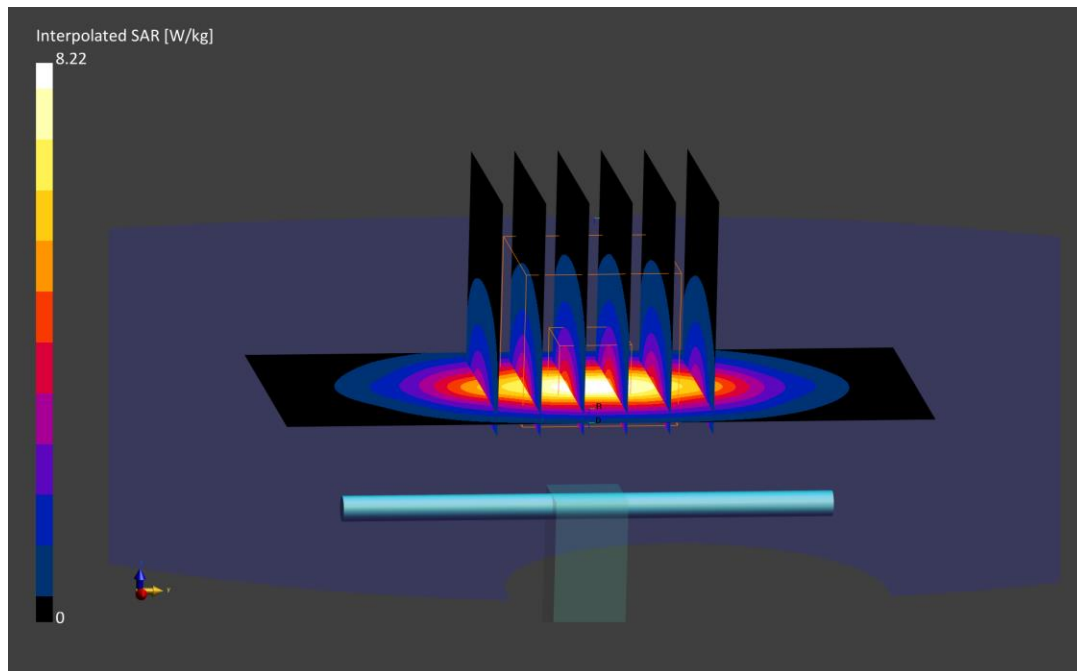
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 8.23 W/kg

SAR (1 g) = 4.18 W/kg

Deviation (1 g) = 4.24%



ELEMENT

DUT: Dipole 2300.0 MHz; Type: D2300V2 - SN1064

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

Medium: 2450 Head; Medium parameters used:

$f = 2300.0$ MHz; $\text{cond} = 1.70$ S/m; $\text{perm} = 38.5$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 07/07/2022; Ambient Temp: 19.7°C; Tissue Temp: 19.6°C

Probe: EX3DV4 - SN7546; ConvF:(7.56,7.56,7.56); 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

2300 MHz System Verification at 20 dBm (100 mW)

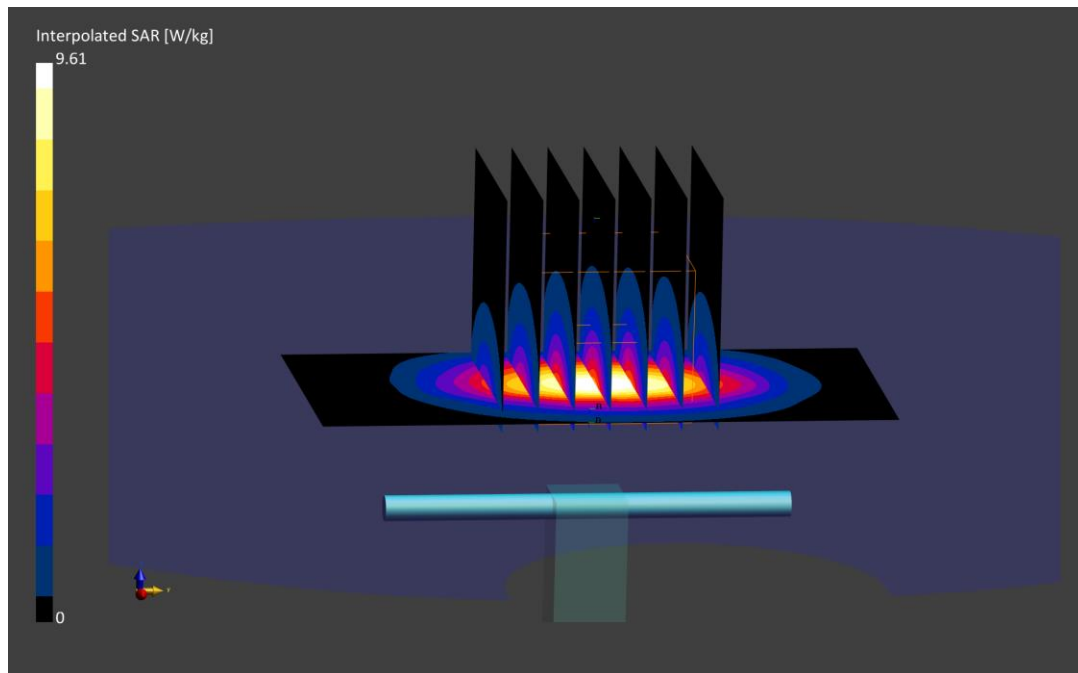
Area Scan (40.0 x 80.0): Measurement grid: $dx=10.0$ mm, $dy=10.0$ mm

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) = 9.61 W/kg

SAR (1 g) = 4.70 W/kg

Deviation (1 g) = -3.89%



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; $\text{cond} = 1.82$ S/m; $\text{perm} = 39.0$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 06/23/2022; Ambient Temp: 22.8°C; Tissue Temp: 22.7°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 (100 mW)

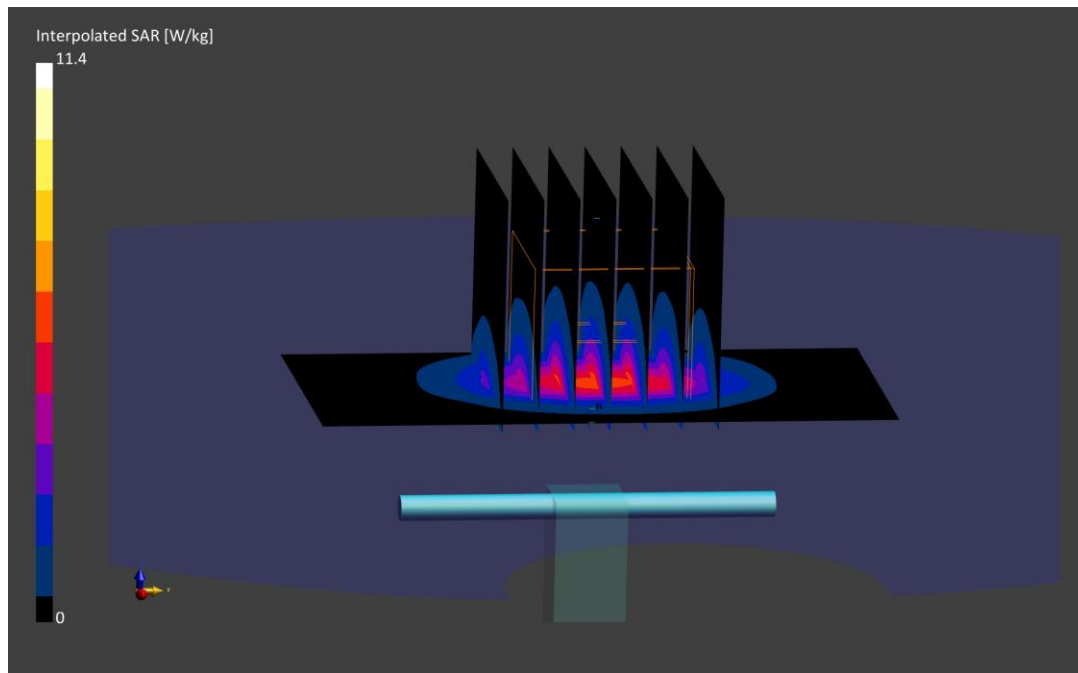
Area Scan (40.0 x 80.0): Measurement grid: $dx=10.0$ mm, $dy=10.0$ mm

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) = 11.4 W/kg

SAR (1 g) = 5.12 W/kg

Deviation (1 g) = -2.10%



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; cond = 1.77 S/m; perm = 39.3; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 07/10/2022; Ambient Temp: 22.1°C; Tissue Temp: 20.8°C

Probe: EX3DV4 - SN3837; ConvF:(7.21,7.21,7.21); Calibrated: 2022-01-19

Sensor-Surface: 1.4mm (All points)

Electronics: DAE4 Sn793; Calibrated: 2022-01-13

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

Measurement SW: DASY Module SAR V16.0.2.136

2450 MHz System Verification at 20 dBm (100 mW)

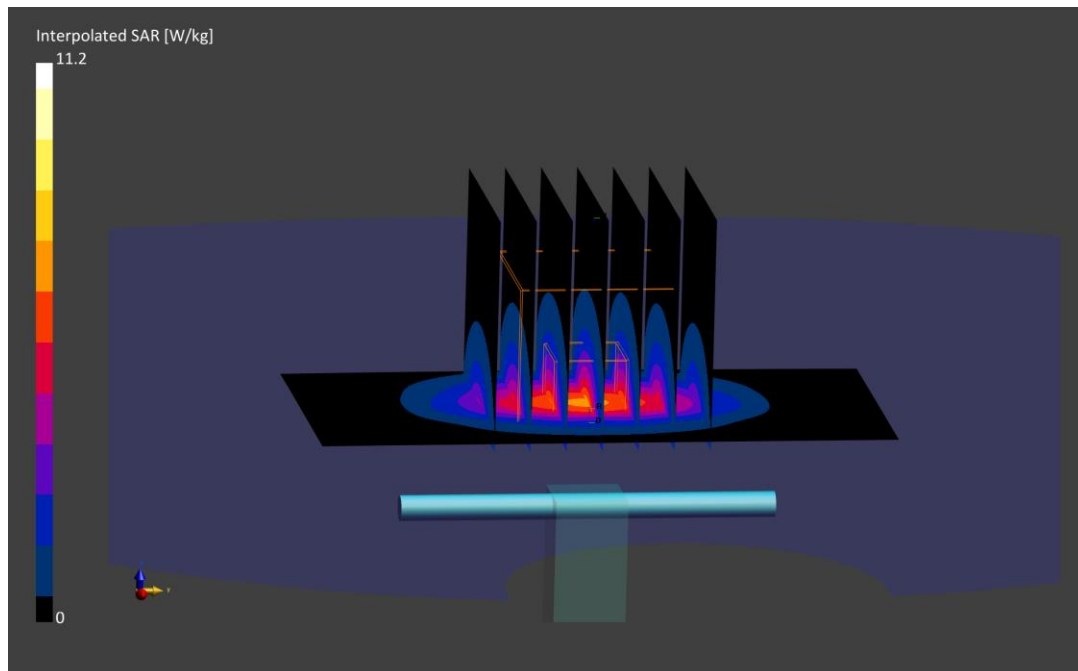
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 11.2 W/kg

SAR (1 g) = 5.38 W/kg

Deviation (1 g) = -0.74%



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; cond = 1.81 S/m; perm = 38.6; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 07/17/2022; Ambient Temp: 21.3°C; Tissue Temp: 22.8°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 (100 mW)

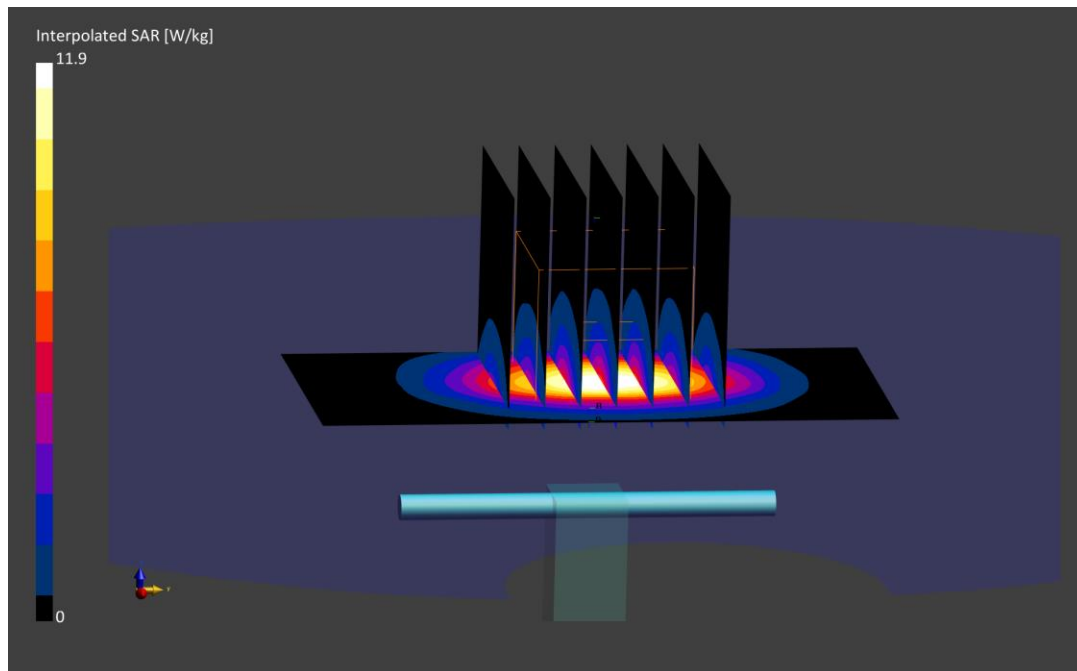
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 11.9 W/kg

SAR (1 g) = 5.06 W/kg

Deviation (1 g) = -3.25%



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; cond = 1.82 S/m; perm = 39.6; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 08/09/2022; Ambient Temp: 20.8°C; Tissue Temp: 22.8°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 (100 mW)

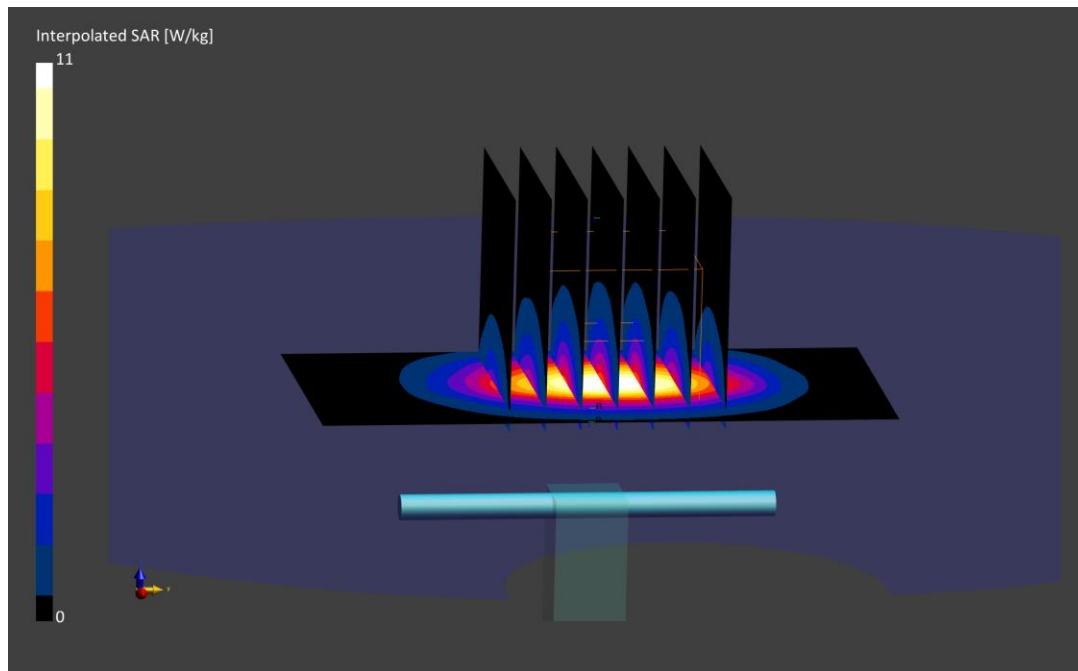
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 11.0 W/kg

SAR (1 g) = 4.98 W/kg

Deviation (1 g) = -5.32%



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; cond = 1.87 S/m; perm = 38.8; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 08/15/2022; Ambient Temp: 19.5°C; Tissue Temp: 21.1°C

Probe: EX3DV4 - SN7416; ConvF:(7.34,7.34,7.34); Calibrated: 2022-05-18

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

Electronics: DAE4 Sn701; Calibrated: 2022-05-16

Phantom: Twin-SAM V8.0; Serial: 2071

Measurement SW: DASY Module SAR V16.0.2.83

2450 MHz System Verification at 20 dBm (100 mW)

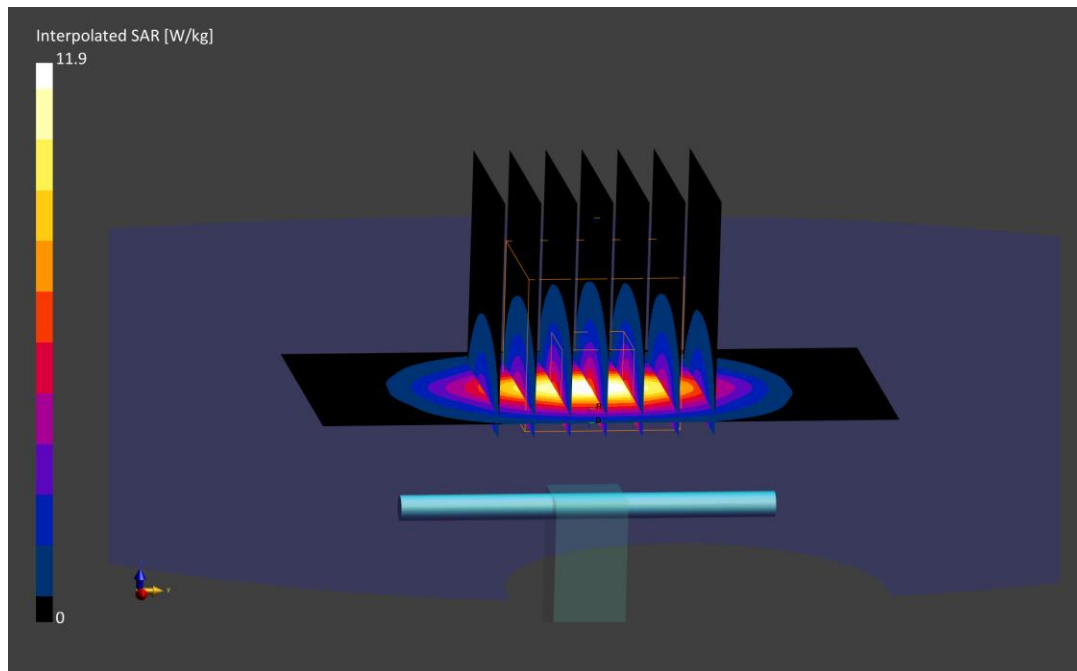
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 11.9 W/kg

SAR (1 g) = 5.58 W/kg

Deviation (1 g) = 2.95%



ELEMENT

DUT: Dipole 2600.0 MHz; Type: D2600V2 - SN1069

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

Medium: 2450 Head; Medium parameters used:

f = 2600.0 MHz; cond = 1.89 S/m; perm = 39.1; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 07/10/2022; Ambient Temp: 22.1°C; Tissue Temp: 20.8°C

Probe: EX3DV4 - SN3837; ConvF:(6.98,6.98,6.98); Calibrated: 2022-01-19

Sensor-Surface: 1.4mm (All points)

Electronics: DAE4 Sn793; Calibrated: 2022-01-13

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

Measurement SW: DASY Module SAR V16.0.2.136

2600 MHz System Verification at 20 dBm (100 mW)

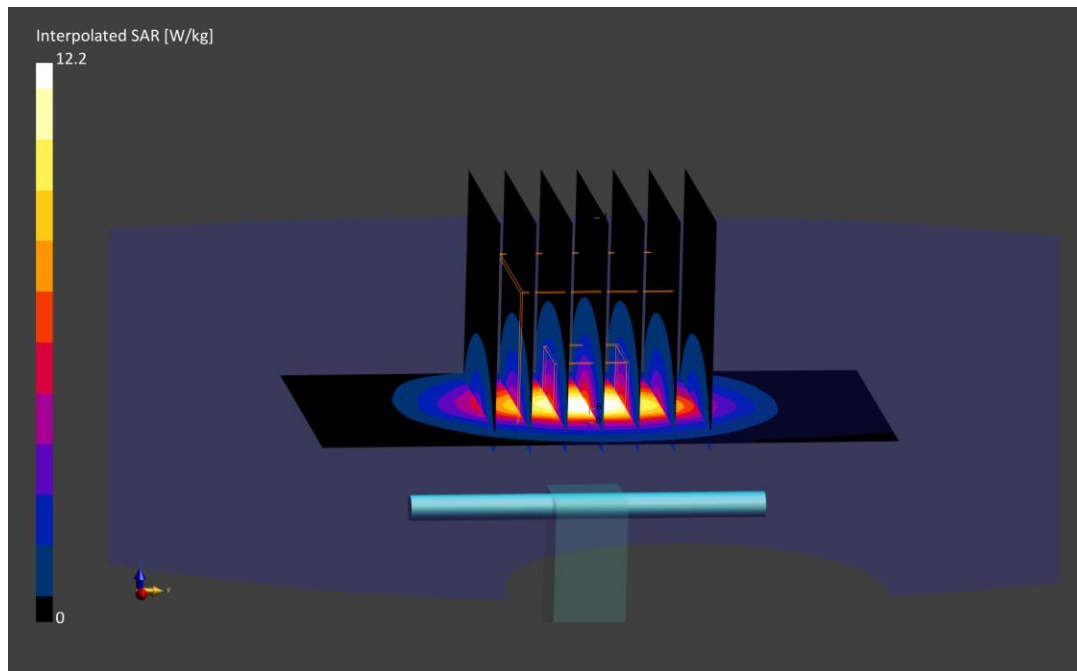
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 12.2 W/kg

SAR (1 g) = 5.70 W/kg

Deviation (1 g) = 2.52%



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 = 2.00 S/m; perm = 38.0; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 07/17/2022; Ambient Temp: 21.3°C; Tissue Temp: 22.8°C

Probe: EX3DV4 - SN7420; ConvF:(7.36,7.36,7.36); 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

2600 MHz System Verification at 20 dBm (100 mW)

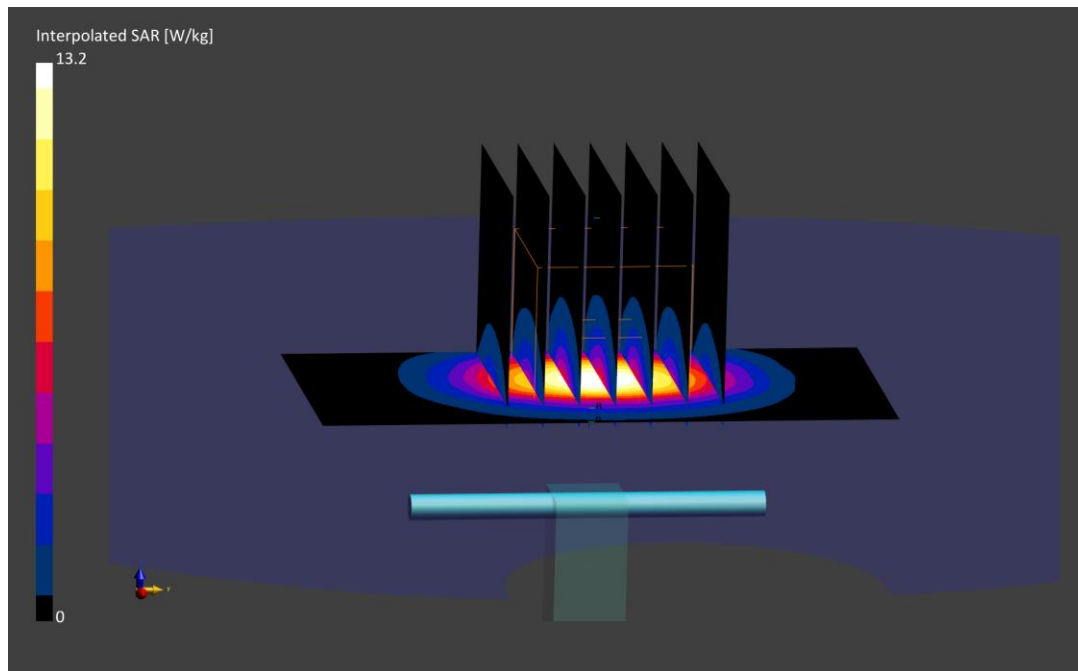
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 13.2 W/kg

SAR (1 g) = 5.35 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 = 2.01 S/m; perm = 38.9; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 08/09/2022; Ambient Temp: 20.8°C; Tissue Temp: 22.8°C

Probe: EX3DV4 - SN7420; ConvF:(7.36,7.36,7.36); 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

2600 MHz System Verification at 20 dBm (100 mW)

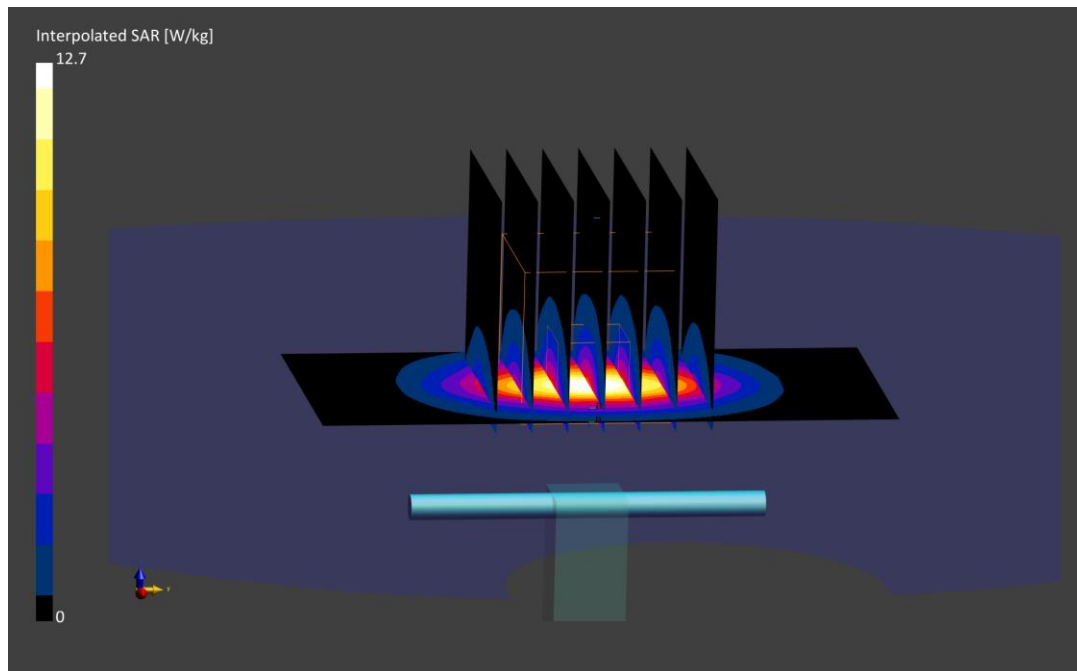
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 12.7 W/kg

SAR (1 g) = 5.38 W/kg

Deviation (1 g) = -3.58%



ELEMENT

DUT: Dipole 3500.0 MHz; Type: D3500V2 - SN1055

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

Medium: 3600 Head; Medium parameters used:

f = 3500.0 MHz; cond = 2.98 S/m; perm = 36.4; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 07/13/2022; Ambient Temp: 19.3°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN7416; ConvF:(6.67,6.67,6.67); Calibrated: 2022-05-18

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

Electronics: DAE4 Sn701; Calibrated: 2022-05-16

Phantom: Twin-SAM V8.0; Serial: 2071

Measurement SW: DASY Module SAR V16.0.2.83

3500 MHz System Verification at 20 dBm (100 mW)

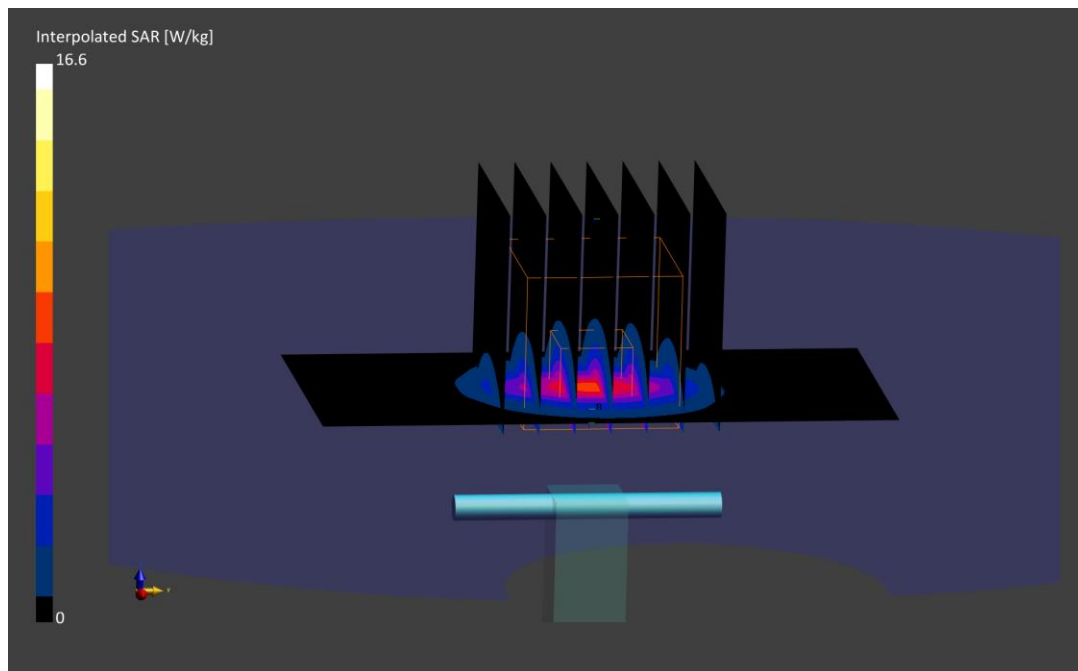
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

Zoom Scan (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) = 16.6 W/kg

SAR (1 g) = 6.36 W/kg

Deviation (1 g) = -6.19%



ELEMENT

DUT: Dipole 3500.0 MHz; Type: D3500V2 - SN1055

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

Medium: 3600 Head; Medium parameters used:

$f = 3500.0$ MHz; $\text{cond} = 2.79$ S/m; $\text{perm} = 37.5$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 08/09/2022; Ambient Temp: 24.8°C; Tissue Temp: 20.1°C

Probe: EX3DV4 - SN7427; ConvF:(6.42,6.42,6.42); Calibrated: 2022-02-22

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

Electronics: DAE4 Sn1403; Calibrated: 2022-02-22

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

Measurement SW: DASY Module SAR V16.0.2.136

3500 MHz System Verification at 20 dBm (100 mW)

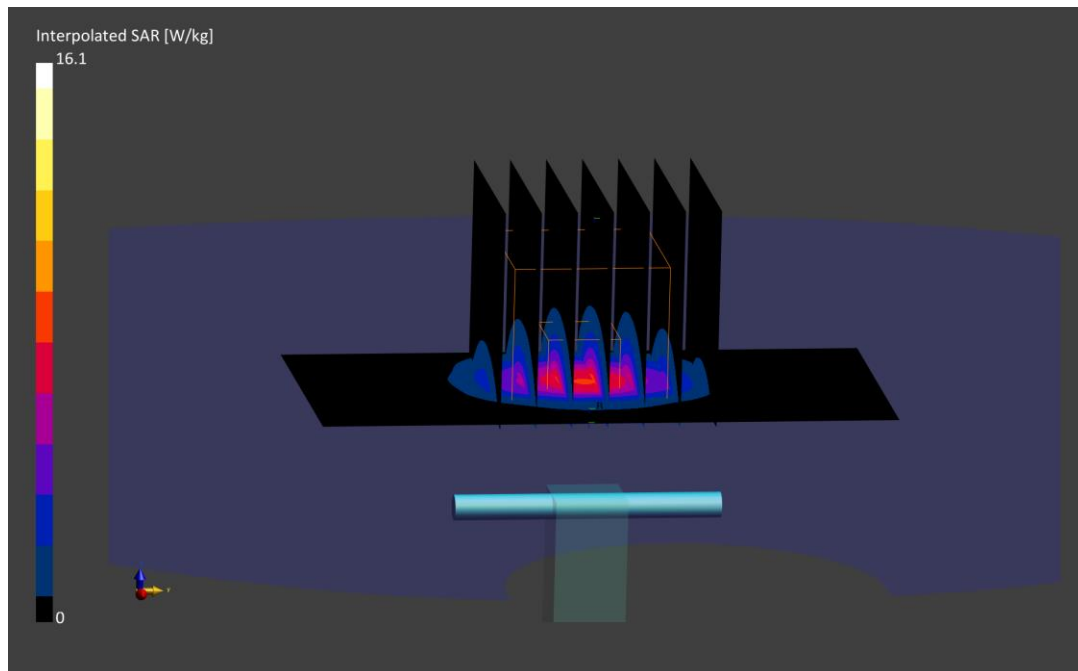
Area Scan (40.0 x 80.0): Measurement grid: $dx=10.0$ mm, $dy=10.0$ mm

Zoom Scan (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) = 16.1 W/kg

SAR (1 g) = 6.38 W/kg

Deviation (1 g) = -5.90%



ELEMENT

DUT: Dipole 3700.0 MHz; Type: D3700V2 - SN1002

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

Medium: 3600 Head; Medium parameters used:

$f = 3700.0$ MHz; $\text{cond} = 2.98$ S/m; $\text{perm} = 38.0$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 07/15/2022; Ambient Temp: 23.5°C; Tissue Temp: 21.7°C

Probe: EX3DV4 - SN3837; ConvF:(6.5,6.5,6.5); Calibrated: 2022-01-19

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

Electronics: DAE4 Sn793; Calibrated: 2022-01-13

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

Measurement SW: DASY Module SAR V16.0.2.136

3700 MHz System Verification at 20 dBm (100 mW)

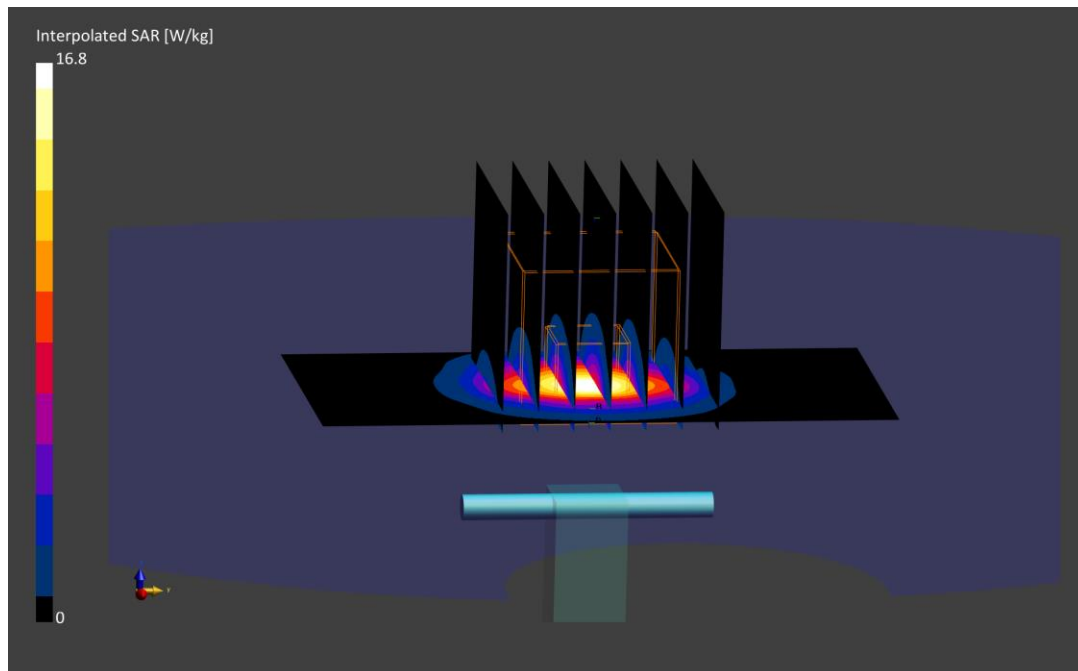
Area Scan (40.0 x 80.0): Measurement grid: $dx=10.0$ mm, $dy=10.0$ mm

Zoom Scan (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) = 16.8 W/kg

SAR (1 g) = 6.42 W/kg

Deviation (1 g) = -6.69%



ELEMENT

DUT: Dipole 3700.0 MHz; Type: D3700V2 - SN1002

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

Medium: 3600 Head; Medium parameters used:

$f = 3700.0$ MHz; $\text{cond} = 2.97$ S/m; $\text{perm} = 37.2$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 08/09/2022; Ambient Temp: 24.8°C; Tissue Temp: 20.1°C

Probe: EX3DV4 - SN7427; ConvF:(6.38,6.38,6.38); Calibrated: 2022-02-22

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

Electronics: DAE4 Sn1403; Calibrated: 2022-02-22

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

Measurement SW: DASY Module SAR V16.0.2.136

3700 MHz System Verification at 20 dBm (100 mW)

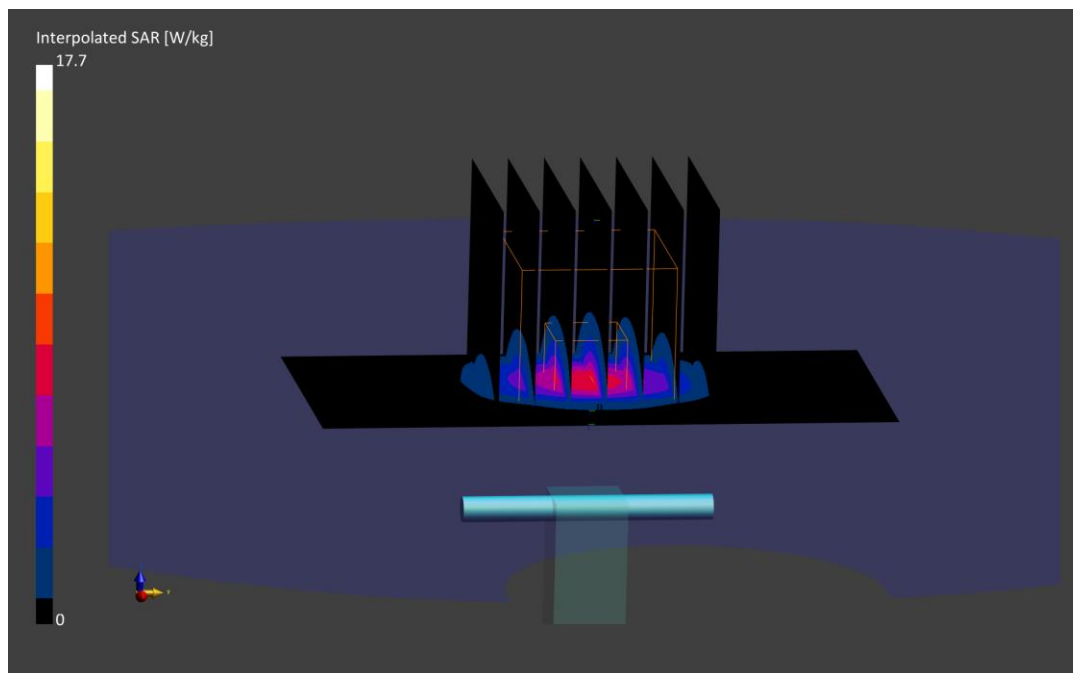
Area Scan (40.0 x 80.0): Measurement grid: $dx=10.0$ mm, $dy=10.0$ mm

Zoom Scan (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) = 17.7 W/kg

SAR (1 g) = 6.63 W/kg

Deviation (1 g) = -3.63%



ELEMENT

DUT: Dipole 3900.0 MHz; Type: D3900V2 - SN1062

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

Medium: 3600 Head; Medium parameters used:

$f = 3900.0$ MHz; $\text{cond} = 3.18$ S/m; $\text{perm} = 37.6$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 07/15/2022; Ambient Temp: 23.5°C; Tissue Temp: 21.7°C

Probe: EX3DV4 - SN3837; ConvF:(6.31,6.31,6.31); Calibrated: 2022-01-19

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

Electronics: DAE4 Sn793; Calibrated: 2022-01-13

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

Measurement SW: DASY Module SAR V16.0.2.136

3900 MHz System Verification at 20 dBm (100 mW)

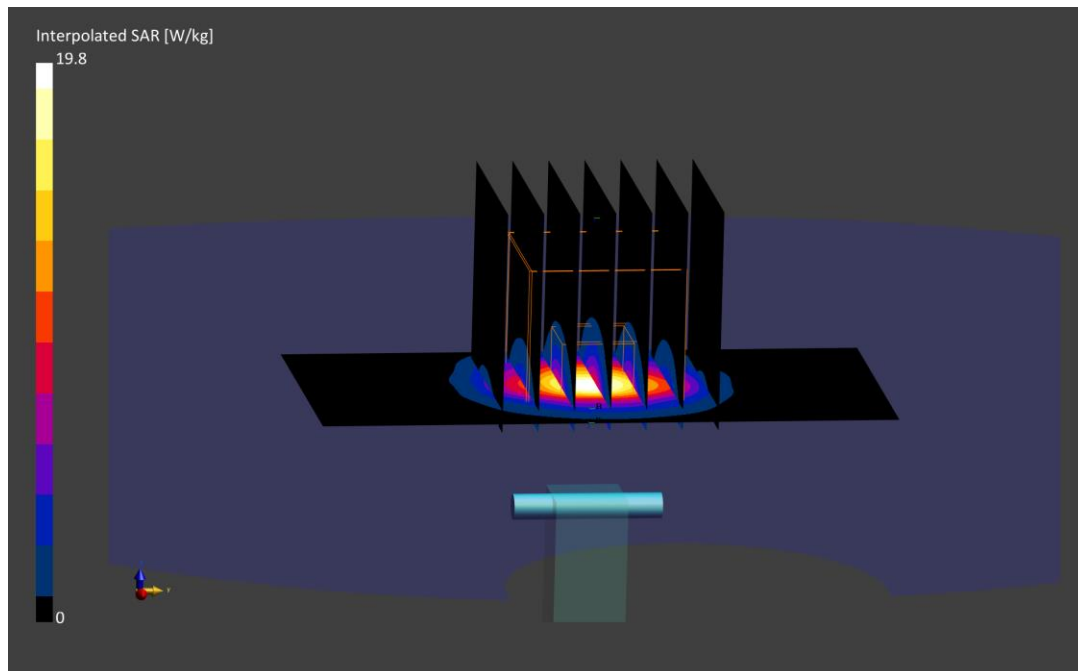
Area Scan (40.0 x 80.0): Measurement grid: $dx=10.0$ mm, $dy=10.0$ mm

Zoom Scan (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) = 19.8 W/kg

SAR (1 g) = 7.11 W/kg

Deviation (1 g) = 3.64%



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; cond = 4.60 S/m; perm = 36.1; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 06/25/2022; Ambient Temp: 21.9°C; Tissue Temp: 21.3°C

Probe: EX3DV4 - SN7638; ConvF:(5.59,5.59,5.59); Calibrated: 2022-03-22

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

Electronics: DAE4 Sn1408; Calibrated: 2022-03-21

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

Measurement SW: DASY Module SAR V16.0.2.136

5250 MHz System Verification at 17 dBm (50 mW)

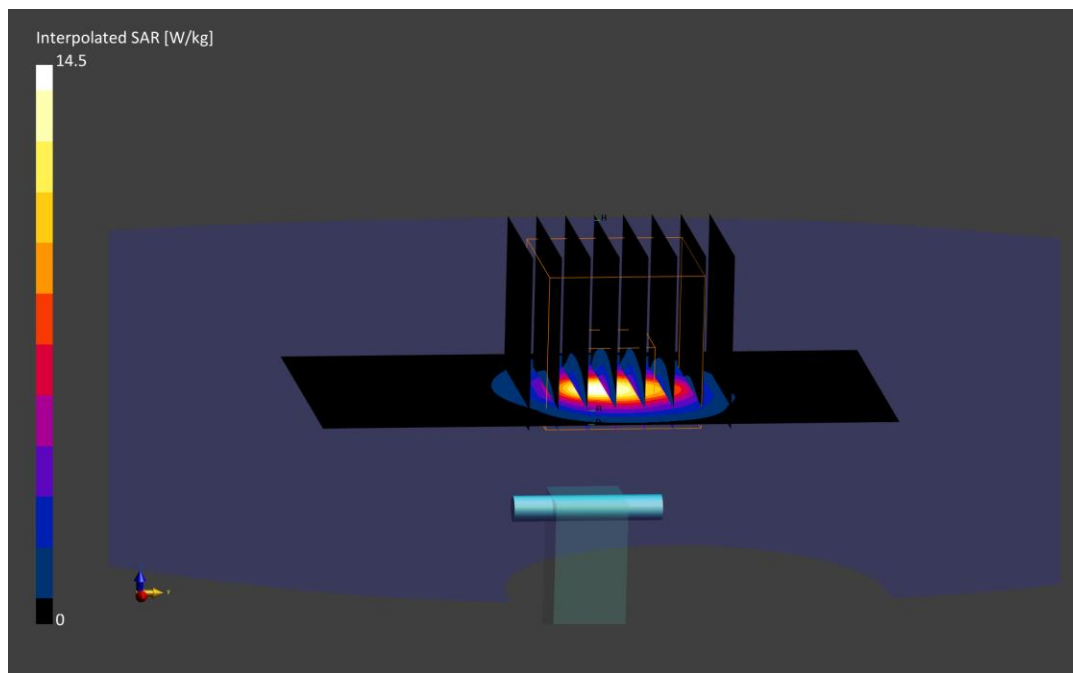
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 14.5 W/kg

SAR (1 g) = 3.93 W/kg

Deviation (1 g) = -2.36%



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 = 5.00 S/m; perm = 35.5; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 06/25/2022; Ambient Temp: 21.9°C; Tissue Temp: 21.3°C

Probe: EX3DV4 - SN7638; ConvF:(4.96,4.96,4.96); Calibrated: 2022-03-22

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

Electronics: DAE4 Sn1408; Calibrated: 2022-03-21

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

Measurement SW: DASY Module SAR V16.0.2.136

5600 MHz System Verification at 17 dBm (50 mW)

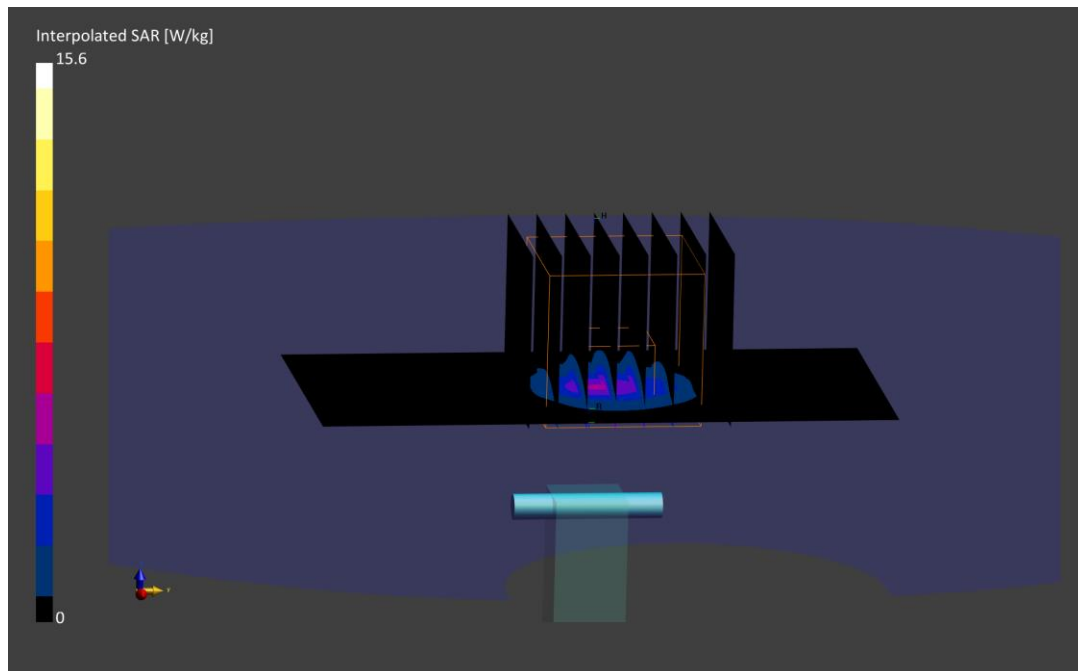
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 15.6 W/kg

SAR (1 g) = 3.89 W/kg

Deviation (1 g) = -7.05%



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 = 5.17 S/m; perm = 35.2; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 06/25/2022; Ambient Temp: 21.9°C; Tissue Temp: 21.3°C

Probe: EX3DV4 - SN7638; ConvF:(5.18,5.18,5.18); Calibrated: 2022-03-22

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

Electronics: DAE4 Sn1408; Calibrated: 2022-03-21

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

Measurement SW: DASY Module SAR V16.0.2.136

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) = 17.1 W/kg

SAR (1 g) = 4.10 W/kg

Deviation (1 g) = 1.86%

