

APPENDIX B: SAR DIPOLE VERIFICATION PLOTS

ELEMENT

DUT: Dipole 13.0 MHz; Type: CLA-13 - SN1002

Communication System: UID: 0, CW; Frequency: 13.0 MHz
Medium: 30 Head; Medium parameters used:
 $f = 13.0$ MHz; $\text{cond} = 0.745$ S/m; $\text{perm} = 55.5$; $\text{density} = 1000$ kg/m³
Phantom Section: Flat; Space: 0 mm

Test Date: 02/28/2023; Ambient Temp: 23.2°C; Tissue Temp: 21.2°C

Probe: EX3DV4 - SN7417; ConvF:(18.67,18.67,18.67); Calibrated: 2023-02-08
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn665; Calibrated: 2023-02-15
Phantom: ELI V8.0; Serial: 2077
Measurement SW: DASY Module SAR V16.2.0.1425

13.0 MHz System Verification at 30.0 dBm (1W)

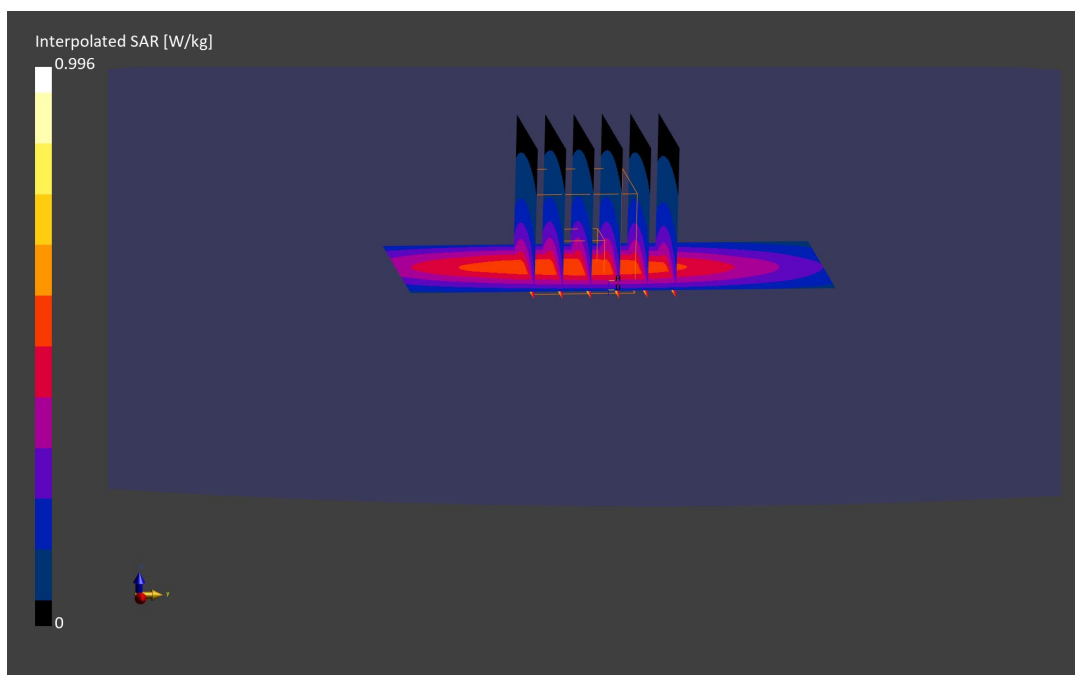
Area Scan (40.0 x 90.0): Measurement grid: $\text{dx}=10.0$ mm, $\text{dy}=15.0$ mm

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) = 0.996 W/kg

SAR(1 g) = 0.503 W/kg; SAR(10 g) = 0.313 W/kg

Deviation (1 g) = -9.69%; Deviation (10 g) = -9.54%



ELEMENT

DUT: Dipole 750.0 MHz; Type: D750V3 - SN1161

Communication System: UID: 0, CW; Frequency: 750.0 MHz
Medium: 750 Head; Medium parameters used:
f = 750.0 MHz; cond = 0.864 S/m; perm = 42.5; density = 1000 kg/m³
Phantom Section: Flat; Space: 15 mm

Test Date: 2/27/2023; Ambient Temp: 21.7°C; Tissue Temp: 19.7°C

Probe: EX3DV4 - SN7409; ConvF:(9.88,9.88,9.88); Calibrated: 2022-06-16
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1334; Calibrated: 2022-06-14
Phantom: Twin-SAM V5.0; Serial: 1792
Measurement SW: DASY Module SAR V16.2.0.1425

750 MHz System Verification at 23 dBm (200 mW)

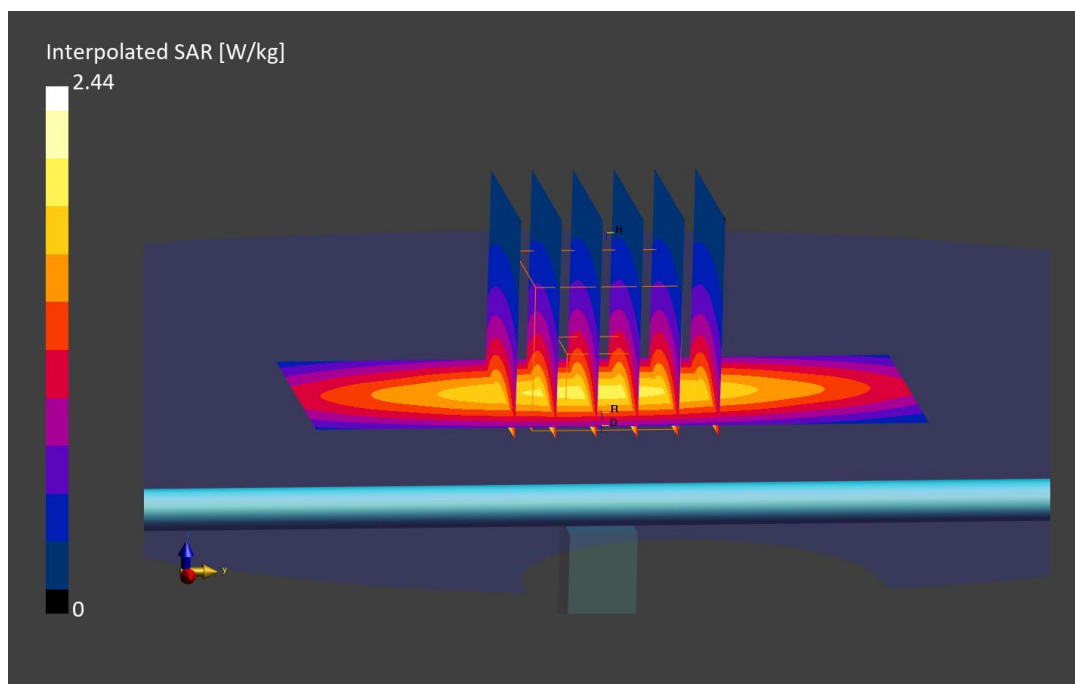
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 2.44 W/kg

SAR(1 g) = 1.65 W/kg; SAR(10 g) = 1.10 W/kg

Deviation (1 g) = -2.25%; Deviation (10 g) = -0.18%



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; cond = 0.921 S/m; perm = 40.9; density = 1000 kg/m³
Phantom Section: Flat; Space: 15 mm

Test Date: 02/23/2023; Ambient Temp: 20.6°C; Tissue Temp: 20.0°C

Probe: EX3DV4 - SN7490; ConvF:(10.06,10.06,10.06); Calibrated: 2022-12-09
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1644; Calibrated: 2022-12-13
Phantom: Twin-SAM V8.0; Serial: 2034
Measurement SW: DASY Module SAR V16.2.0.1425

835 MHz System Verification at 23 dBm (200 mW)

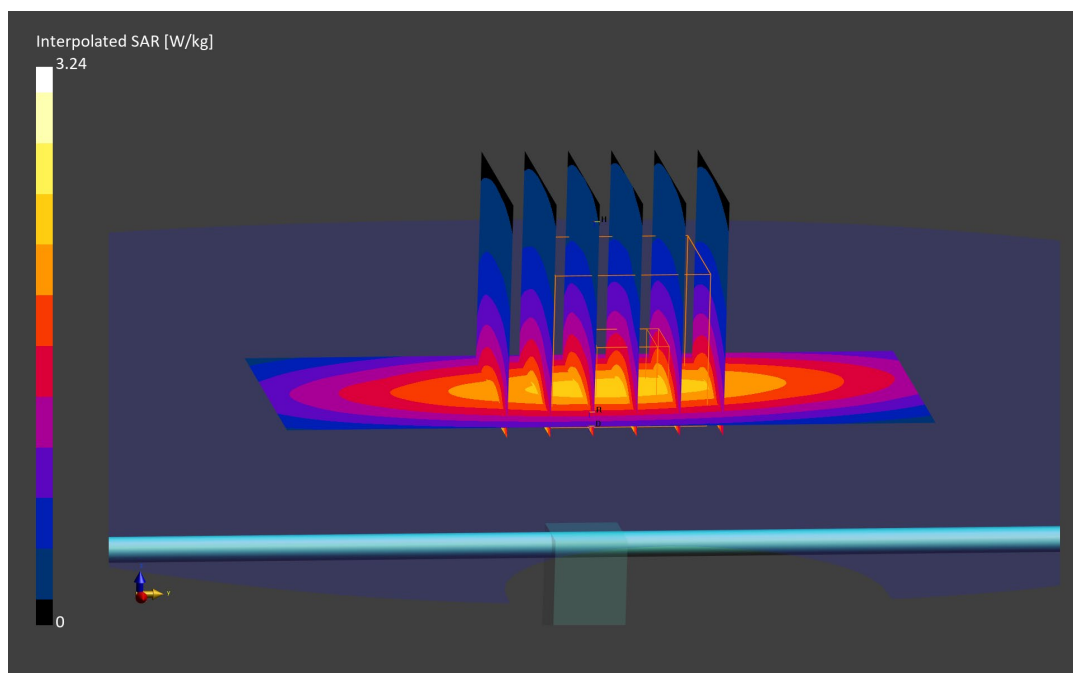
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 3.24 W/kg

SAR(1 g) = 2.04 W/kg; SAR(10 g) = 1.33 W/kg

Deviation (1 g) = 4.19%; Deviation (10 g) = 4.23%



ELEMENT

DUT: Dipole 835.0 MHz; Type: D835V2 - SN4d133

Communication System: UID: 0, CW; Frequency: 835.0 MHz
Medium: 835 Head; Medium parameters used:
f = 835.0 MHz; cond = 0.911 S/m; perm = 40.6; density = 1000 kg/m³
Phantom Section: Flat; Space: 15 mm

Test Date: 02/27/2023; Ambient Temp: 23.1°C; Tissue Temp: 21.2°C

Probe: EX3DV4 - SN7406; ConvF:(9.86,9.86,9.86); Calibrated: 2022-07-18
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1677; Calibrated: 2022-07-18
Phantom: Twin-SAM V8.0; Serial: 2064
Measurement SW: DASY Module SAR V16.2.0.1425

835 MHz System Verification at 23 dBm (200 mW)

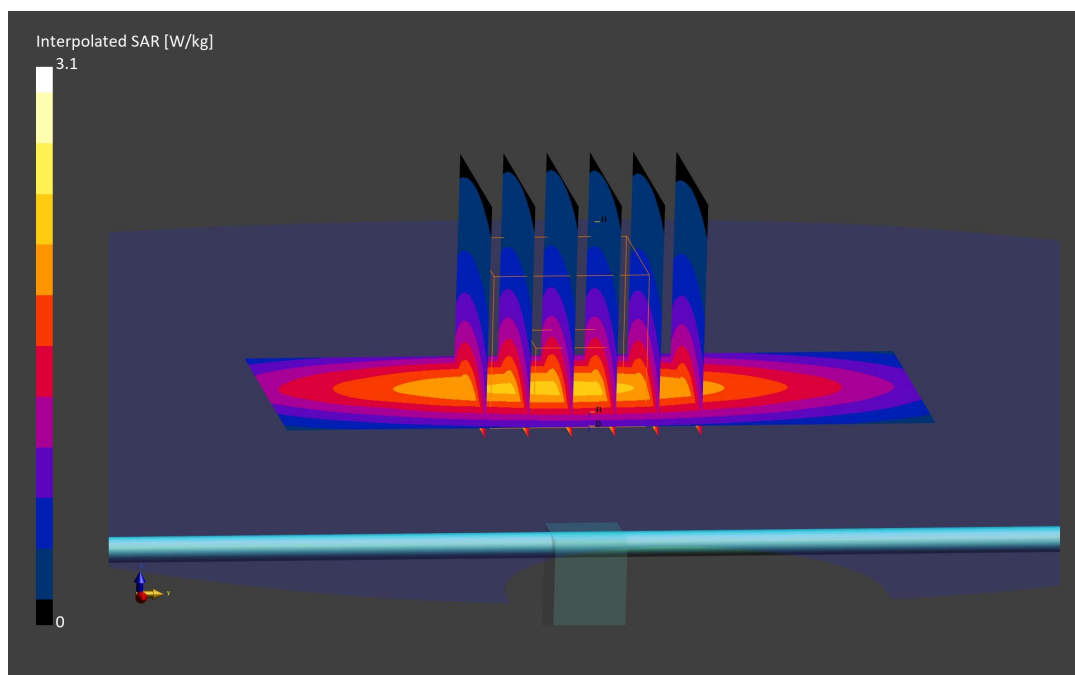
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 3.10 W/kg

SAR(1 g) = 1.90 W/kg; SAR(10 g) = 1.23 W/kg

Deviation (1 g) = -2.66%; Deviation (10 g) = -3.45%



ELEMENT

DUT: Dipole 835.0 MHz; Type: D835V2 - SN4d132

Communication System: UID: 0, CW; Frequency: 835.0 MHz
Medium: 835 Head; Medium parameters used:
f = 835.0 MHz; cond = 0.895 S/m; perm = 41.7; density = 1000 kg/m³
Phantom Section: Flat; Space: 15 mm

Test Date: 03/01/2023; Ambient Temp: 25.0°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7409; ConvF:(9.58,9.58,9.58); Calibrated: 2022-06-16
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1334; Calibrated: 2022-06-14
Phantom: Twin-SAM V5.0; Serial: 1792
Measurement SW: DASY Module SAR V16.2.0.1425

835 MHz System Verification at 23 dBm (200 mW)

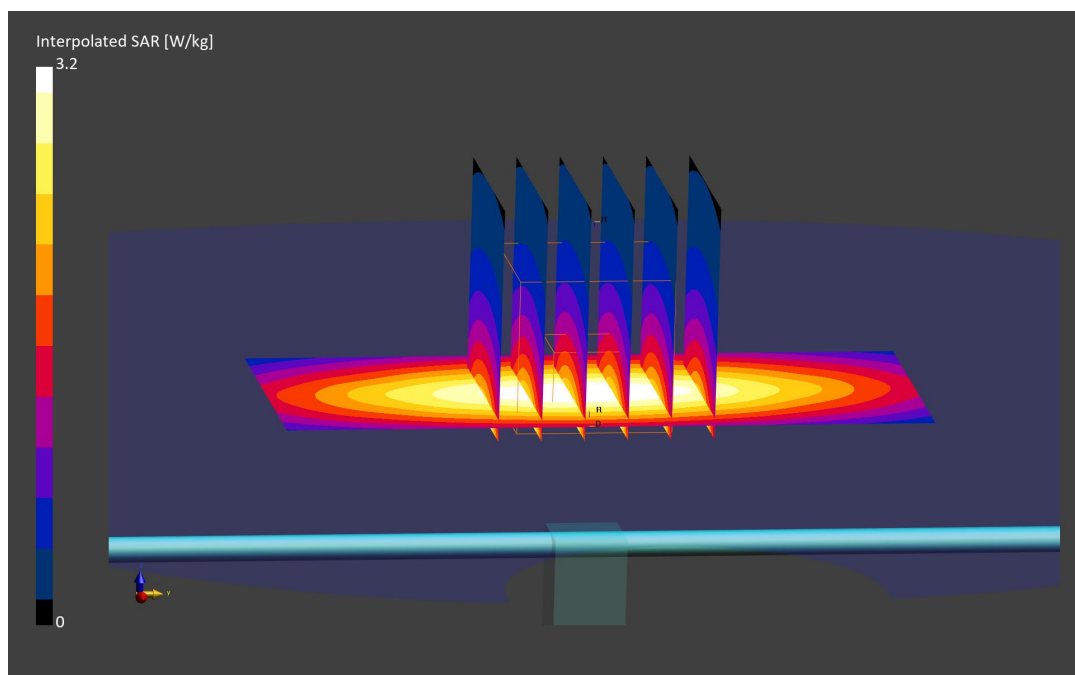
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 3.20 W/kg

SAR(1 g) = 2.10 W/kg; SAR(10 g) = 1.37 W/kg

Deviation (1 g) = 8.70%; Deviation (10 g) = 9.25%



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 = 1.36 S/m; perm = 39.5; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 02/22/2023; Ambient Temp: 21.1°C; Tissue Temp: 19.7°C

Probe: EX3DV4 - SN7639; ConvF:(9.3,9.3,9.3); Calibrated: 2022-11-14
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1646; Calibrated: 2022-11-10
Phantom: Twin-SAM V8.0; Serial: 1936
Measurement SW: DASY Module SAR V16.2.0.1425

1750 MHz System Verification at 20 dBm (100 mW)

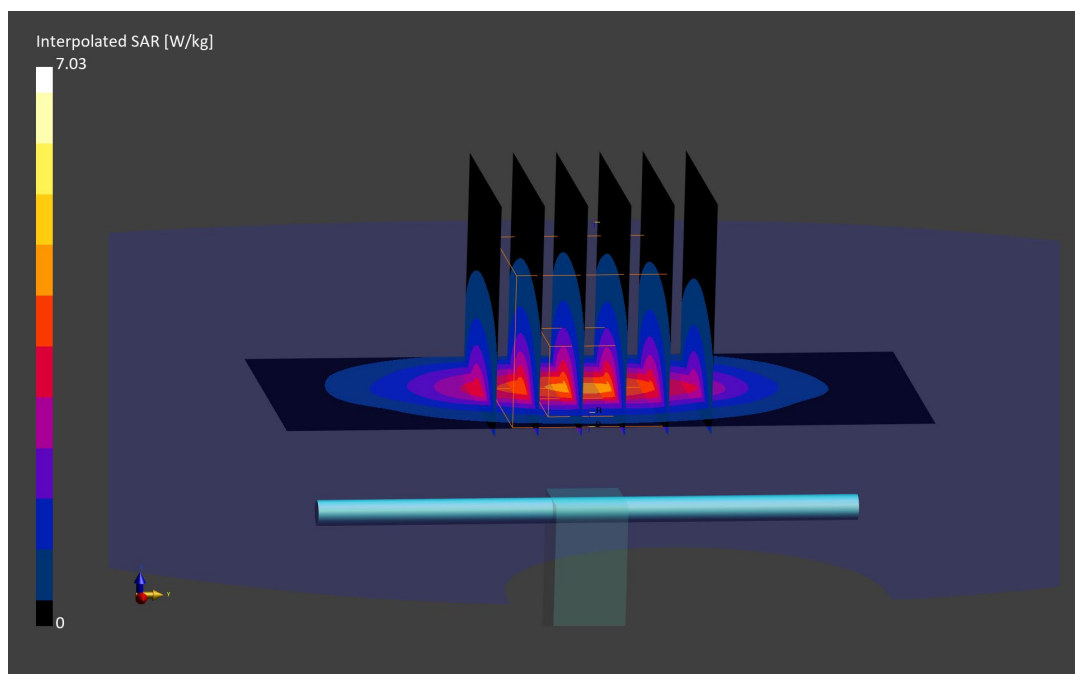
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 7.03 W/kg

SAR(1 g) = 3.55 W/kg; SAR(10 g) = 1.85 W/kg

Deviation (1 g) = -0.56%; Deviation (10 g) = -1.60%



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 = 1.36 S/m; perm = 39.1; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 02/23/2023; Ambient Temp: 20.6°C; Tissue Temp: 20.0°C

Probe: EX3DV4 - SN7490; ConvF:(8.65,8.65,8.65); Calibrated: 2022-12-09
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1644; Calibrated: 2022-12-13
Phantom: Twin-SAM V8.0; Serial: 2034
Measurement SW: DASY Module SAR V16.2.0.1425

1750 MHz System Verification at 20 dBm (100 mW)

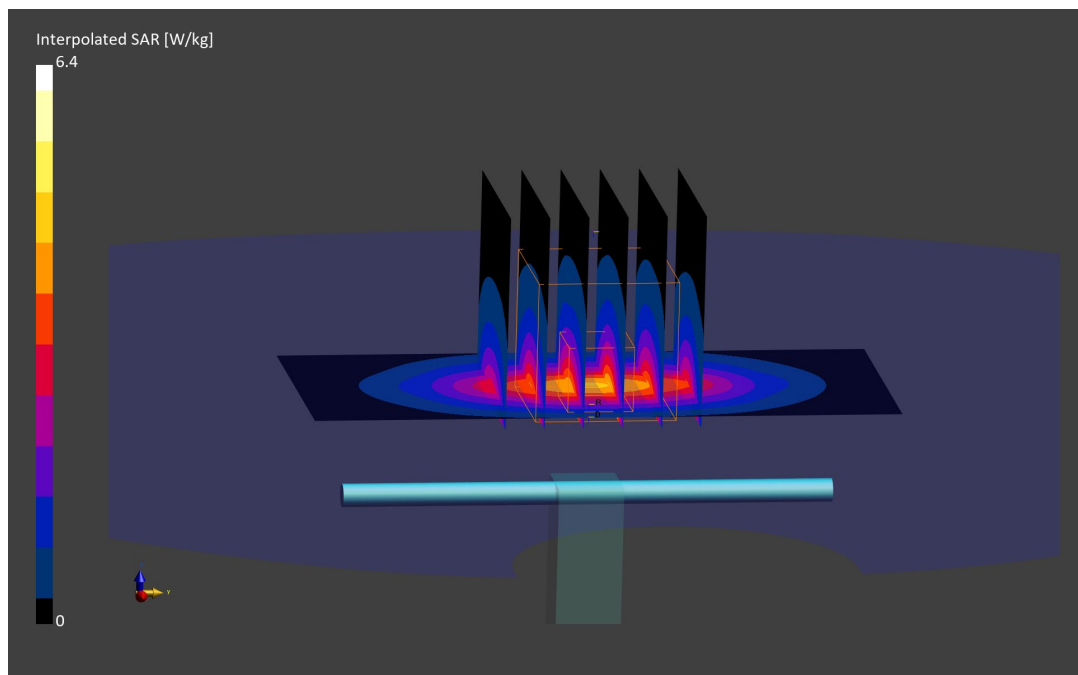
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 6.40 W/kg

SAR(1 g) = 3.49 W/kg; SAR(10 g) = 1.86 W/kg

Deviation (1 g) = -2.24%; Deviation (10 g) = -1.06%



ELEMENT

DUT: Dipole 1900.0 MHz; Type: D1900V2 - SN5d148

Communication System: UID: 0, CW; Frequency: 1900.0 MHz
Medium: 1900 Head; Medium parameters used:
f = 1900.0 MHz; cond = 1.42 S/m; perm = 39.2; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 02/23/2023; Ambient Temp: 22.3°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7409; ConvF:(8.13,8.13,8.13); Calibrated: 2022-06-16
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1334; Calibrated: 2022-06-14
Phantom: Twin-SAM V5.0; Serial: 1792
Measurement SW: DASY Module SAR V16.2.0.1425

1900 MHz System Verification at 20 dBm (100 mW)

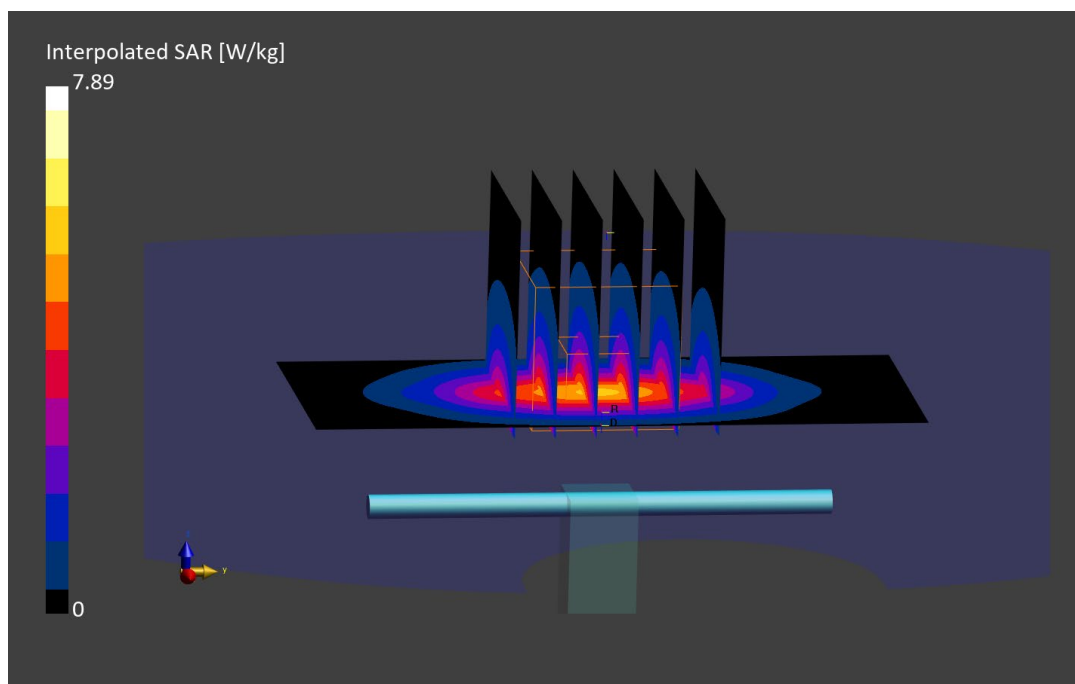
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 7.89 W/kg

SAR(1 g) = 4.24 W/kg; SAR(10 g) = 2.21 W/kg

Deviation (1 g) = 5.74%; Deviation (10 g) = 5.24%



ELEMENT

DUT: Dipole 1900.0 MHz; Type: D1900V2 - SN5d149

Communication System: UID: 0, CW; Frequency: 1900.0 MHz
Medium: 1900 Head; Medium parameters used:
f = 1900.0 MHz; cond = 1.43 S/m; perm = 40.4; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 02/27/2023; Ambient Temp: 21.7°C; Tissue Temp: 19.7°C

Probe: EX3DV4 - SN7409; ConvF:(8.13,8.13,8.13); Calibrated: 2022-06-16
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1334; Calibrated: 2022-06-14
Phantom: Twin-SAM V5.0; Serial: 1792
Measurement SW: DASY Module SAR V16.2.0.1425

1900 MHz System Verification at 20 dBm (100 mW)

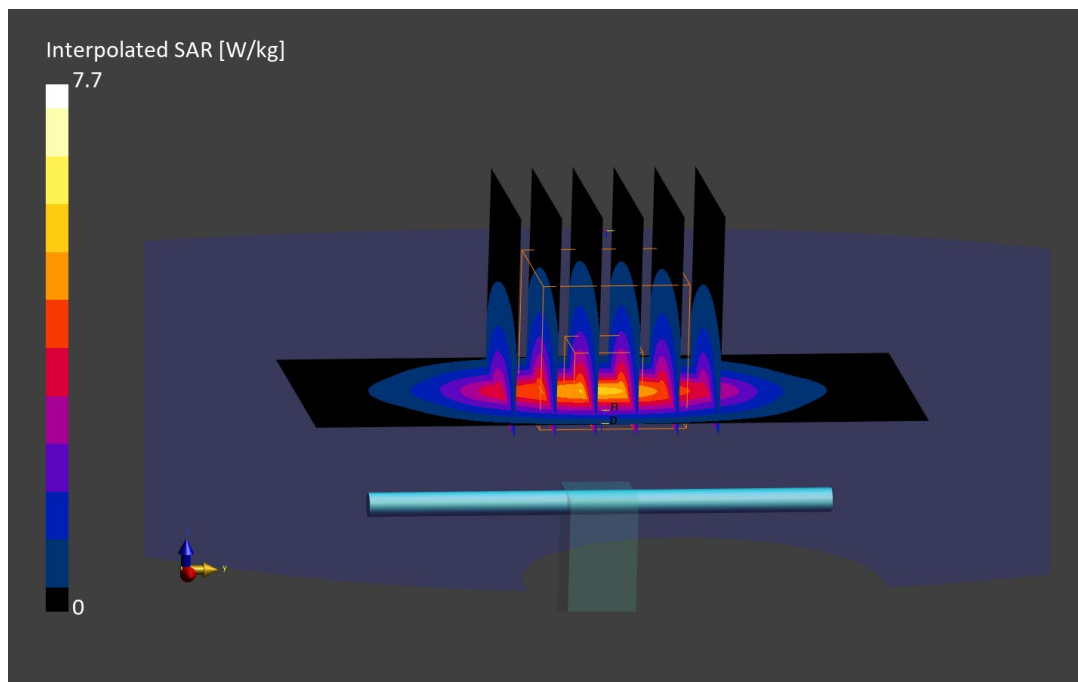
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 7.70 W/kg

SAR(1 g) = 4.12 W/kg; SAR(10 g) = 2.15 W/kg

Deviation (1 g) = 1.73%; Deviation (10 g) = 1.42%



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 = 1.88 S/m; perm = 40.8; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 02/27/2023; Ambient Temp: 21.2°C; Tissue Temp: 20.8°C

Probe: EX3DV4 - SN7420; ConvF:(7.33,7.33,7.33); Calibrated: 2022-10-20

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

Electronics: DAE4 Sn1333; Calibrated: 2022-10-13

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

Measurement SW: DASY Module SAR V16.2.0.1425

2450 MHz System Verification at 20 dBm (100 mW)

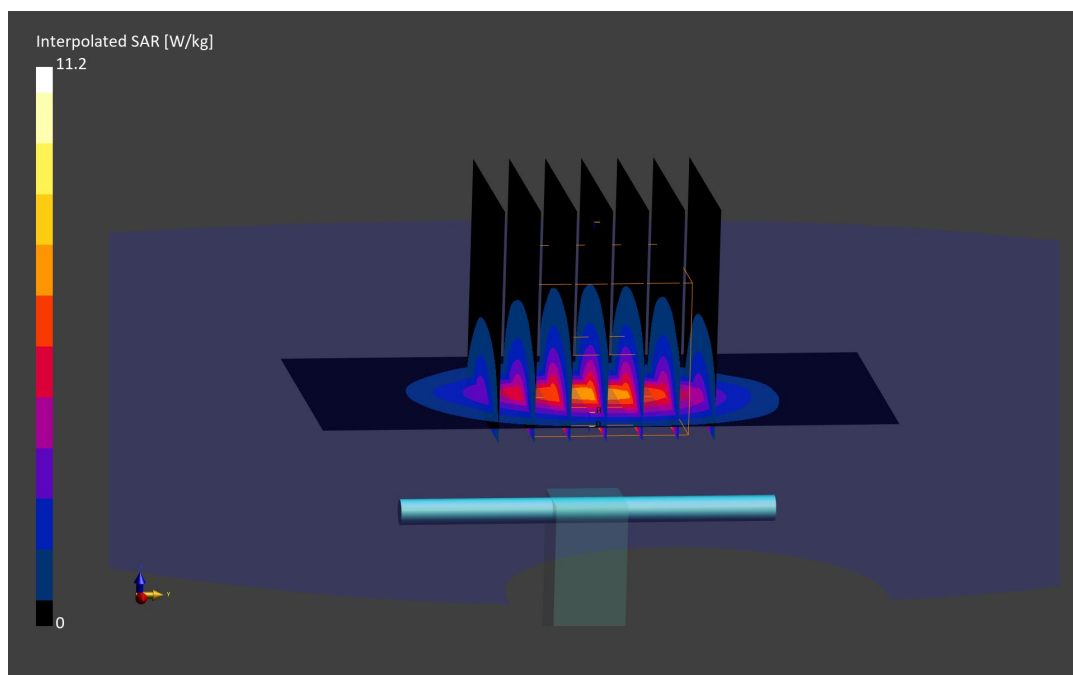
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 5.40 W/kg; SAR(10 g) = 2.50 W/kg

Deviation (1 g) = 2.66%; Deviation (10 g) = 2.04%



ELEMENT

DUT: Dipole 2450.0 MHz; Type: D2450V2 - SN981

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

Medium: 2450 Head; Medium parameters used:

f = 2450.0 MHz; cond = 1.86 S/m; perm = 39.2; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 02/28/2023; Ambient Temp: 21.5°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN7406; ConvF:(7.72,7.72,7.72); Calibrated: 2022-07-18

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

Electronics: DAE4 Sn1677; Calibrated: 2022-07-18

Phantom: Twin-SAM V8.0; Serial: 2064

Measurement SW: DASY Module SAR V16.2.0.1425

2450 MHz System Verification at 20 dBm (100 mW)

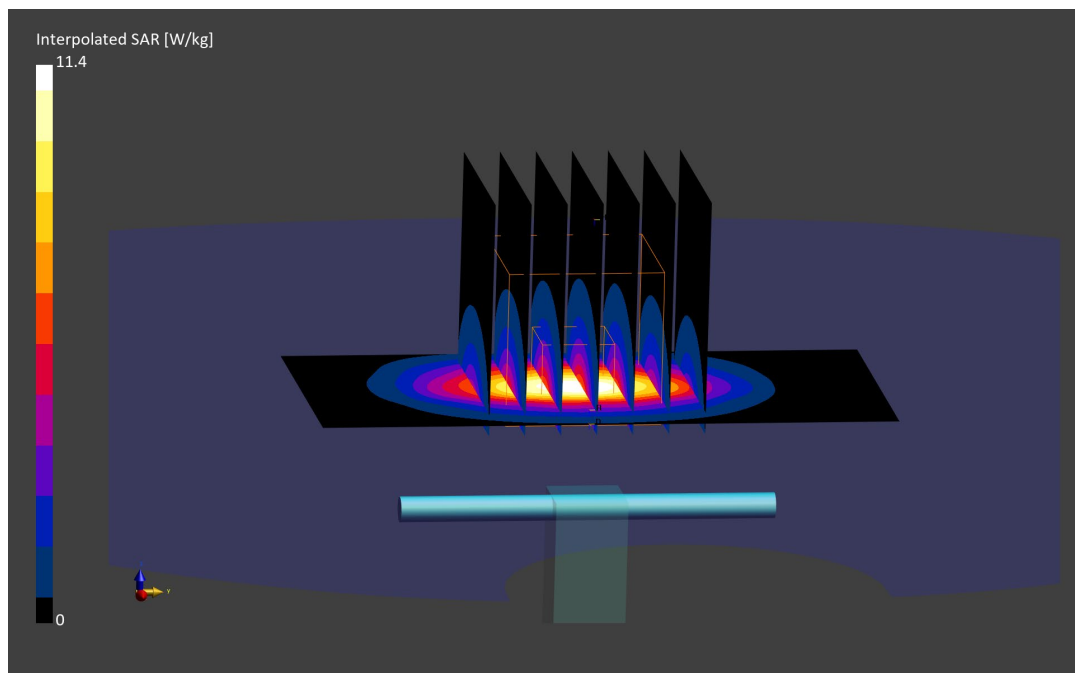
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 5.29 W/kg; SAR(10 g) = 2.44 W/kg

Deviation (1 g) = -1.86%; Deviation (10 g) = -3.94%



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 = 40.6; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 02/27/2023; Ambient Temp: 21.2°C; Tissue Temp: 20.8°C

Probe: EX3DV4 - SN7420; ConvF:(7.2,7.2,7.2); Calibrated: 2022-10-20
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1333; Calibrated: 2022-10-13
Phantom: Twin-SAM V8.0; Serial: 1736
Measurement SW: DASY Module SAR V16.2.0.1425

2600 MHz System Verification at 20 dBm (100 mW)

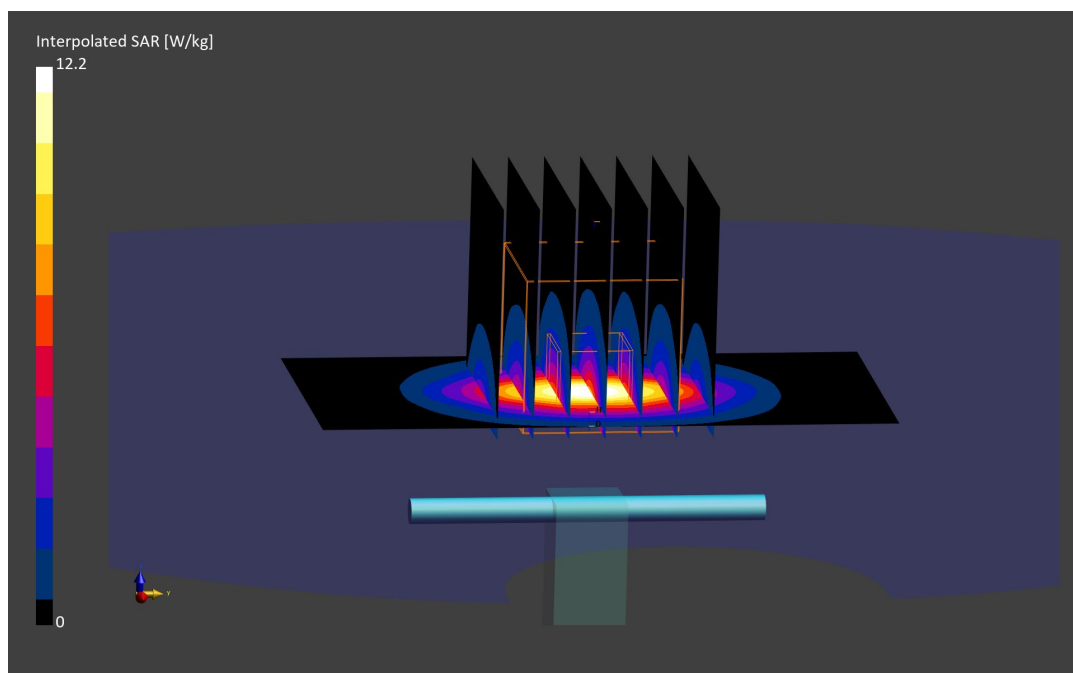
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 5.63 W/kg; SAR(10 g) = 2.51 W/kg

Deviation (1 g) = 0.90%; Deviation (10 g) = 0.80%



ELEMENT

DUT: Dipole 5250.0 MHz; Type: D5GHzV2 - SN1057

Communication System: UID: 0, CW; Frequency: 5250.0 MHz
Medium: 5200-5800 Head; Medium parameters used:
f = 5250.0 MHz; cond = 4.79 S/m; perm = 35.6; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 03/12/2023; Ambient Temp: 19.01°C; Tissue Temp: 19.0°C

Probe: EX3DV4 - SN7570; ConvF:(5.52,5.52,5.52); Calibrated: 2023-01-11
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1558; Calibrated: 2023-01-17
Phantom: Twin-SAM V8.0; Serial: 2060
Measurement SW: DASY Module SAR V16.2.0.1425

5250 MHz System Verification at 17 dBm (50 mW)

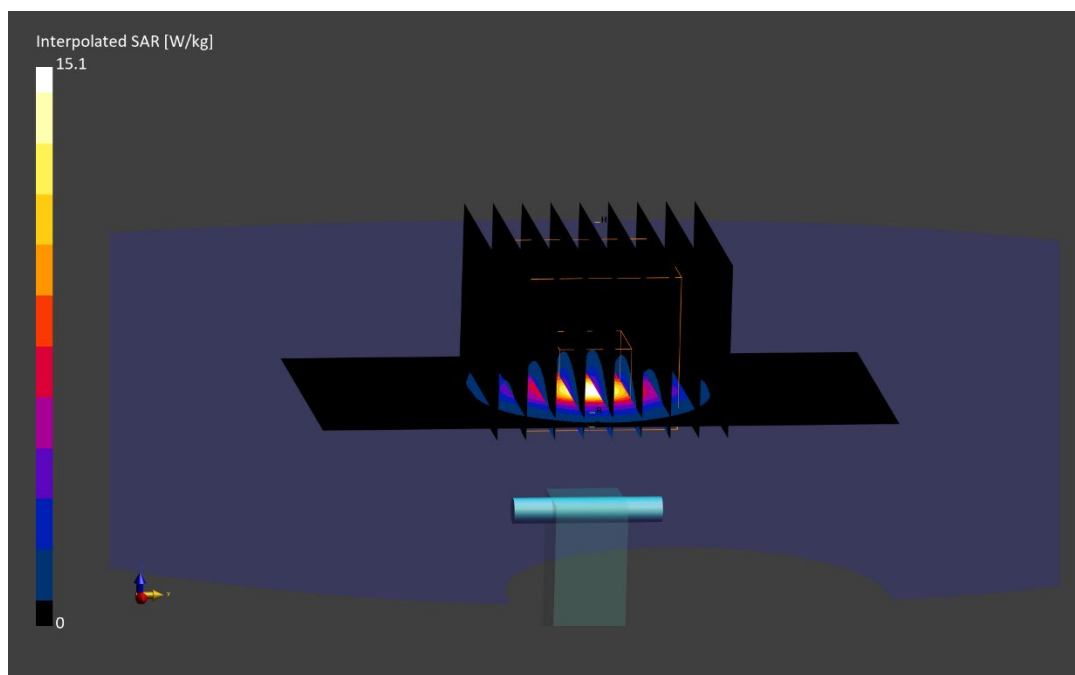
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 15.1 W/kg

SAR(1 g) = 3.86 W/kg; SAR(10 g) = 1.12 W/kg

Deviation (1 g) = -4.93%; Deviation (10 g) = -3.45%



ELEMENT

DUT: Dipole 5600.0 MHz; Type: D5GHzV2 - SN1057

Communication System: UID: 0, CW; Frequency: 5600.0 MHz
Medium: 5200-5800 Head; Medium parameters used:
f = 5600.0 MHz; cond = 5.22 S/m; perm = 34.8; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 03/12/2023; Ambient Temp: 19.1°C; Tissue Temp: 19.0°C

Probe: EX3DV4 - SN7570; ConvF:(4.84,4.84,4.84); Calibrated: 2023-01-11
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1558; Calibrated: 2023-01-17
Phantom: Twin-SAM V8.0; Serial: 2060
Measurement SW: DASY Module SAR V16.2.0.1425

5600 MHz System Verification at 17 dBm (50 mW)

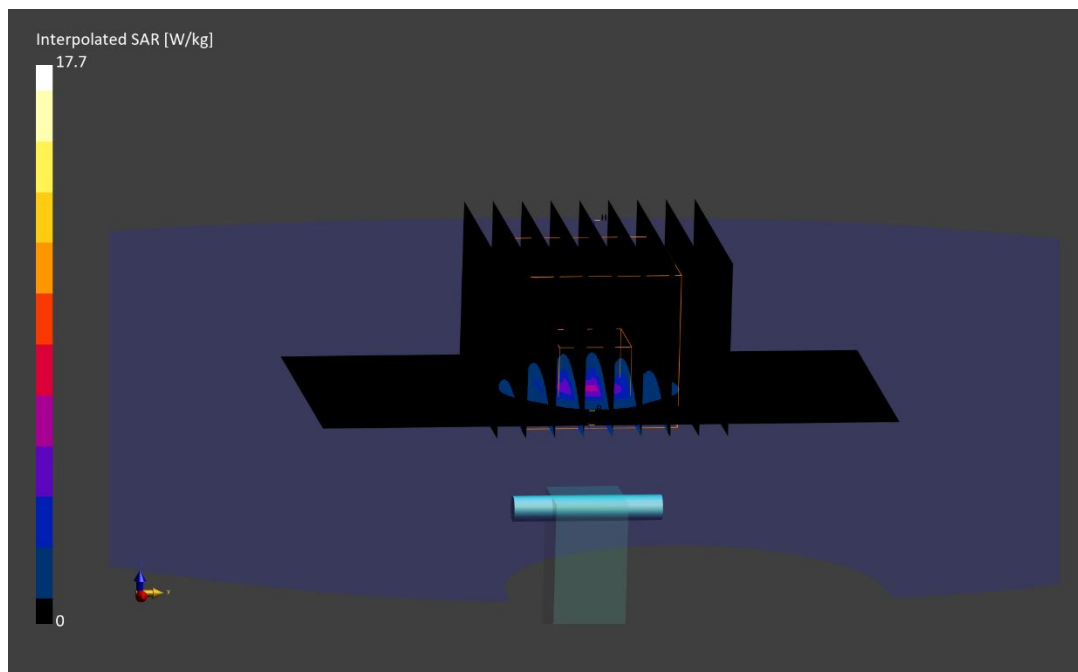
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 17.7 W/kg

SAR(1 g) = 4.19 W/kg; SAR(10 g) = 1.20 W/kg

Deviation (1 g) = -0.48%; Deviation (10 g) = 0.42%



ELEMENT

DUT: Dipole 5750.0 MHz; Type: D5GHzV2 - SN1057

Communication System: UID: 0, CW; Frequency: 5750.0 MHz
Medium: 5200-5800 Head; Medium parameters used:
f = 5750.0 MHz; cond = 5.40 S/m; perm = 34.5; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 03/12/2023; Ambient Temp: 19.1°C; Tissue Temp: 19.0°C

Probe: EX3DV4 - SN7570; ConvF:(4.92,4.92,4.92); Calibrated: 2023-01-11
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1558; Calibrated: 2023-01-17
Phantom: Twin-SAM V8.0; Serial: 2060
Measurement SW: DASY Module SAR V16.2.0.1425

5750 MHz System Verification at 17 dBm (50 mW)

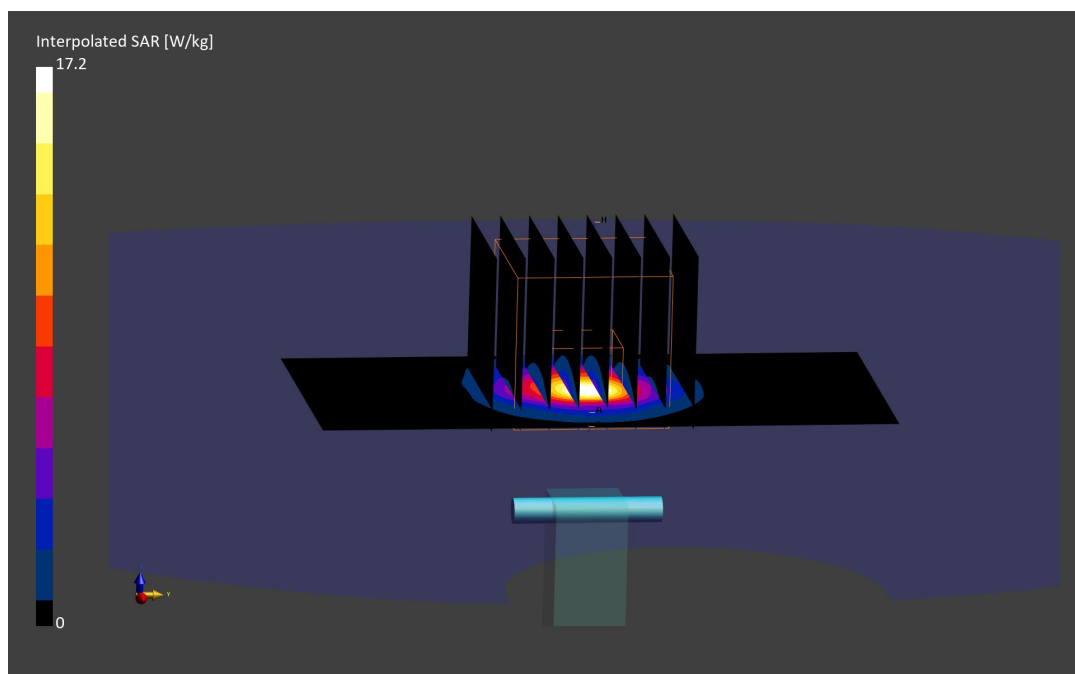
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 17.3 W/kg

SAR(1 g) = 3.99 W/kg; SAR(10 g) = 1.13 W/kg

Deviation (1 g) = -1.24%; Deviation (10 g) = -1.31%



ELEMENT

DUT: Dipole 750.0 MHz; Type: D750V3 - SN1161

Communication System: UID: 0, CW; Frequency: 750.0 MHz
Medium: 750 Body; Medium parameters used:
f = 750.0 MHz; cond = 0.950 S/m; perm = 54.9; density = 1000 kg/m³
Phantom Section: Flat; Space: 15 mm

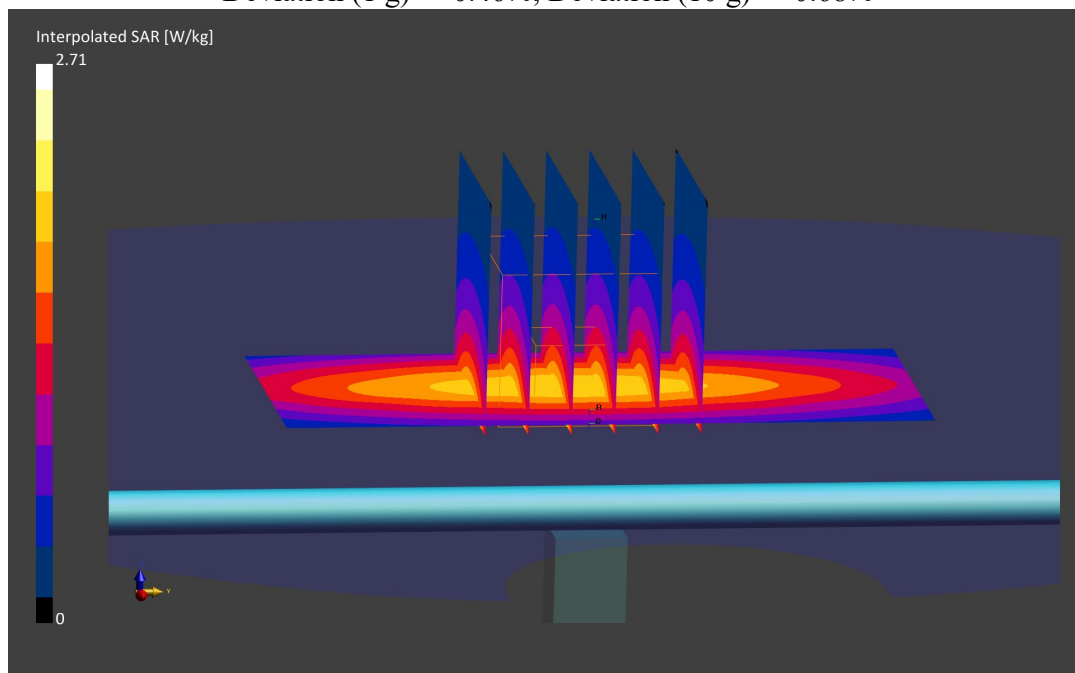
Test Date: 03/09/2023; Ambient Temp: 20.7°C; Tissue Temp: 19.6°C

Probe: EX3DV4 - SN7570; ConvF:(10.26,10.26,10.26); Calibrated: 2023-01-11
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1558; Calibrated: 2023-01-17
Phantom: Twin-SAM V8.0; Serial: 2060
Measurement SW: DASY Module SAR V16.0.2.83

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) = 2.71 W/kg
SAR(1 g) = 1.75 W/kg; SAR(10 g) = 1.16 W/kg
Deviation (1 g) = -0.46%; Deviation (10 g) = -0.68%



ELEMENT

DUT: Dipole 835.0 MHz; Type: D835V2 - SN460

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

Medium: 835 Body; Medium parameters used:

f = 835.0 MHz; cond = 0.958 S/m; perm = 53.1; density = 1000 kg/m³

Phantom Section: Flat; Space: 15 mm

Test Date: 02/23/2023; Ambient Temp: 20.9°C; Tissue Temp: 20.1°C

Probe: EX3DV4 - SN7490; ConvF:(10.13,10.13,10.13); Calibrated: 2022-12-09

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

Electronics: DAE4 Sn1644; Calibrated: 2022-12-13

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

Measurement SW: DASY Module SAR V16.2.0.1425

835 MHz System Verification at 23 dBm (200 mW)

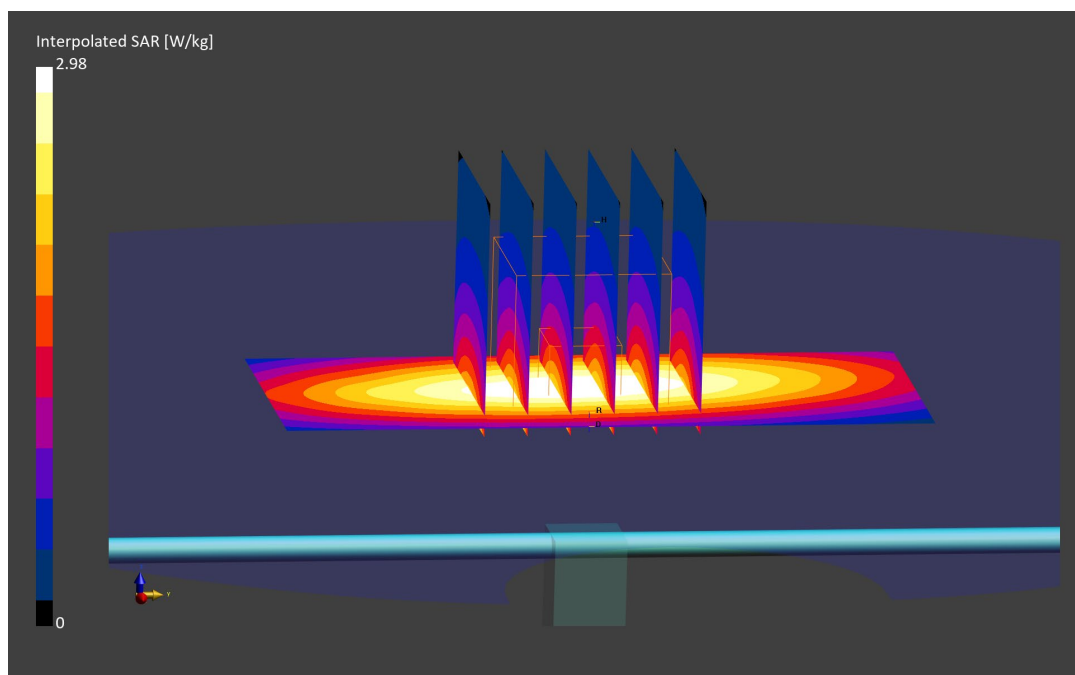
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 1.95 W/kg; SAR(10 g) = 1.29 W/kg

Deviation (1 g) = -0.41%; Deviation (10 g) = -0.15%



ELEMENT

DUT: Dipole 835.0 MHz; Type: D835V2 - SN4d133

Communication System: UID: 0, CW; Frequency: 835.0 MHz
Medium: 835 Body; Medium parameters used:
f = 835.0 MHz; cond = 0.947 S/m; perm = 55.8; density = 1000 kg/m³
Phantom Section: Flat; Space: 15 mm

Test Date: 02/27/2023; Ambient Temp: 21.5°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN7406; ConvF:(9.48,9.48,9.48); Calibrated: 2022-07-18
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1677; Calibrated: 2022-07-18
Phantom: Twin-SAM V8.0; Serial: 2064
Measurement SW: DASY Module SAR V16.2.0.1425

835 MHz System Verification at 23 dBm (200 mW)

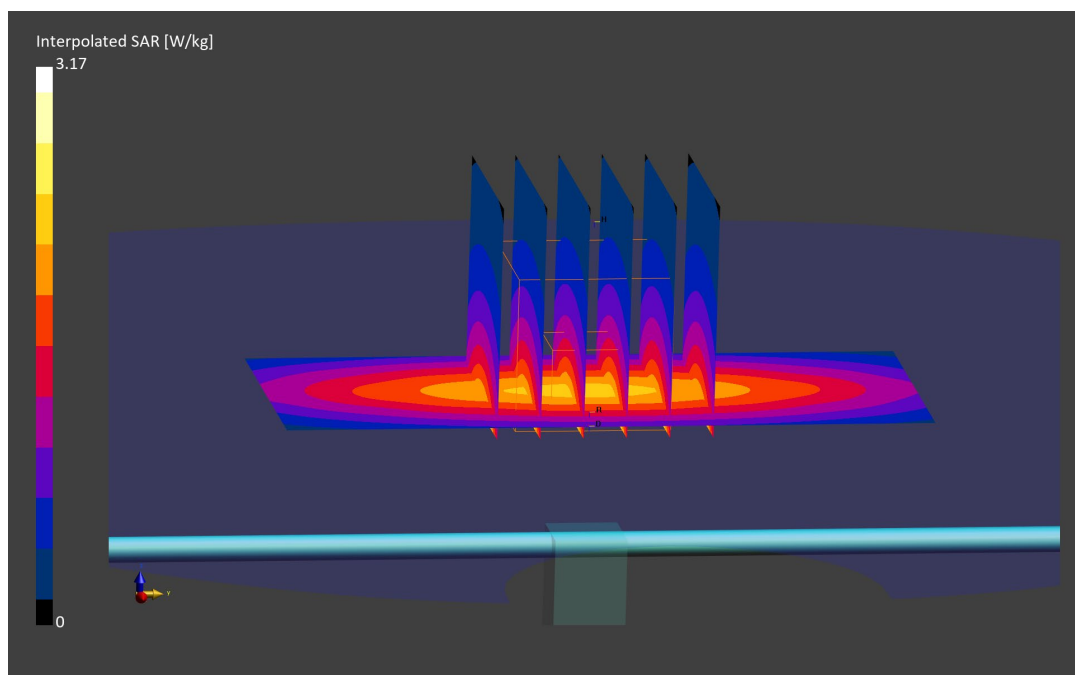
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 3.17 W/kg

SAR(1 g) = 1.95 W/kg; SAR(10 g) = 1.28 W/kg

Deviation (1 g) = 0.62%; Deviation (10 g) = 0.63%



ELEMENT

DUT: Dipole 835.0 MHz; Type: D835V2 - SN4d132

Communication System: UID: 0, CW; Frequency: 835.0 MHz
Medium: 835 Body; Medium parameters used:
f = 835.0 MHz; cond = 0.942 S/m; perm = 54.9; density = 1000 kg/m³
Phantom Section: Flat; Space: 15 mm

Test Date: 03/14/2023; Ambient Temp: 22.9°C; Tissue Temp: 19.7°C

Probe: EX3DV4 - SN7406; ConvF:(9.48,9.48,9.48); Calibrated: 2022-07-18
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1677; Calibrated: 2022-07-18
Phantom: Twin-SAM V8.0; Serial: 2064
Measurement SW: DASY Module SAR V16.2.0.1425

835 MHz System Verification at 23 dBm (200 mW)

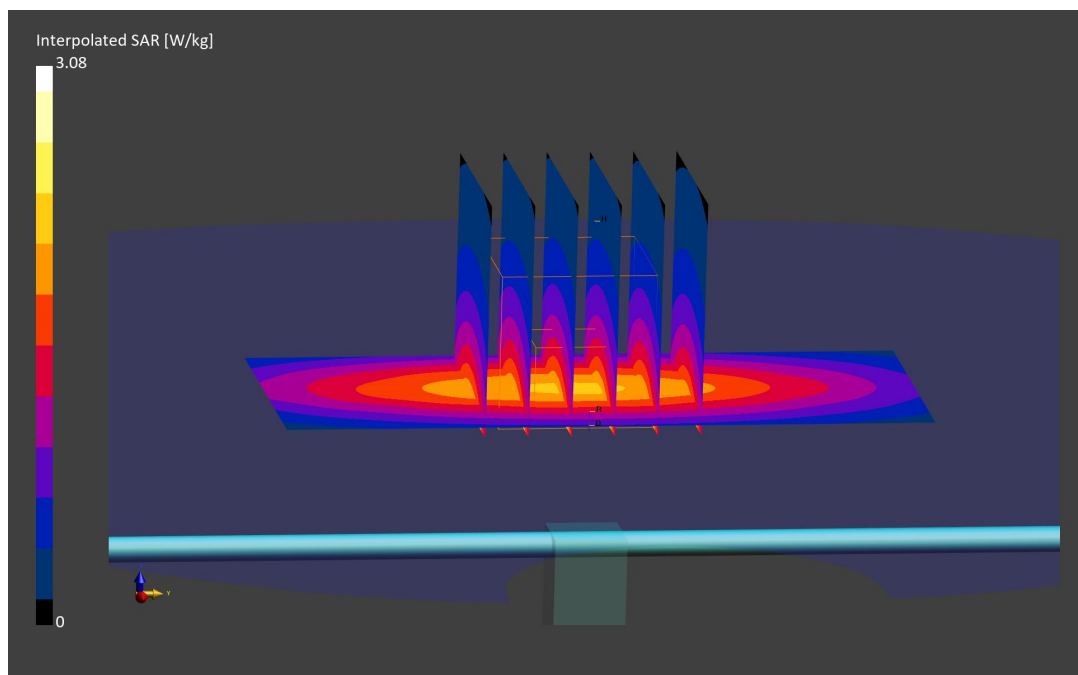
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 3.08 W/kg

SAR(1 g) = 1.86 W/kg; SAR(10 g) = 1.22 W/kg

Deviation (1 g) = -5.20%; Deviation (10 g) = -5.28%



ELEMENT

DUT: Dipole 1750.0 MHz; Type: D1750V2 - SN1104

Communication System: UID: 0, CW; Frequency: 1750.0 MHz
Medium: 1750 Body; Medium parameters used:
f = 1750.0 MHz; cond = 1.52 S/m; perm = 51.6; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 02/23/2023; Ambient Temp: 21.7°C; Tissue Temp: 19.9°C

Probe: EX3DV4 - SN7639; ConvF:(9.36,9.36,9.36); Calibrated: 2022-11-14
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1646; Calibrated: 2022-11-10
Phantom: Twin-SAM V8.0; Serial: 1936
Measurement SW: DASY Module SAR V16.2.0.1425

1750 MHz System Verification at 20 dBm (100 mW)

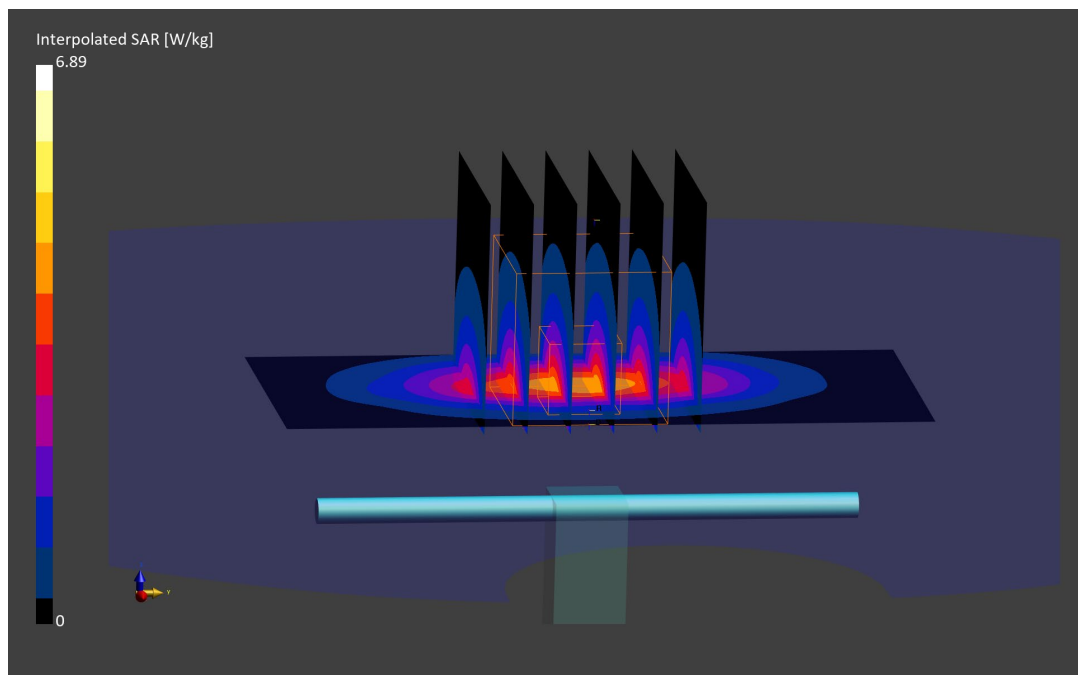
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 6.89 W/kg

SAR(1 g) = 3.65 W/kg; SAR(10 g) = 1.91 W/kg

Deviation (1 g) = 0.55%; Deviation (10 g) = -1.04%



ELEMENT

DUT: Dipole 1750.0 MHz; Type: D1765V2 - SN1008

Communication System: UID: 0, CW; Frequency: 1750.0 MHz
Medium: 1750 Body; Medium parameters used:
f = 1750.0 MHz; cond = 1.46 S/m; perm = 53.3; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 03/14/2023; Ambient Temp: 21.7°C; Tissue Temp: 19.7°C

Probe: EX3DV4 - SN7406; ConvF:(8.06,8.06,8.06); Calibrated: 2022-07-18
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1677; Calibrated: 2022-07-18
Phantom: Twin-SAM V8.0; Serial: 2064
Measurement SW: DASY Module SAR V16.2.0.1425

1750 MHz System Verification at 20 dBm (100 mW)

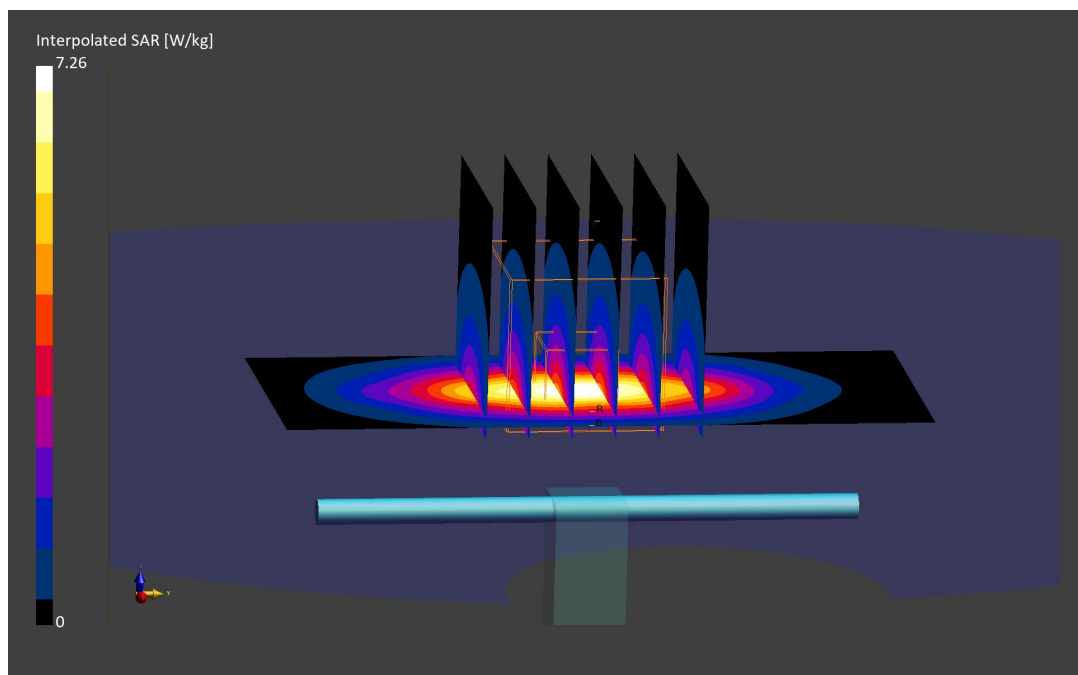
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 7.26 W/kg

SAR(1 g) = 3.82 W/kg; SAR(10 g) = 2.03 W/kg

Deviation (1 g) = 1.06%; Deviation (10 g) = 2.01%



ELEMENT

DUT: Dipole 1900.0 MHz; Type: D1900V2 - SN5d148

Communication System: UID: 0, CW; Frequency: 1900.0 MHz
Medium: 1900 Body; Medium parameters used:
f = 1900.0 MHz; cond = 1.58 S/m; perm = 51.5; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 02/21/2023; Ambient Temp: 22.8°C; Tissue Temp: 20.4°C

Probe: EX3DV4 - SN7409; ConvF:(7.66,7.66,7.66); Calibrated: 2022-06-16
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1334; Calibrated: 2022-06-14
Phantom: Twin-SAM V5.0; Serial: 1792
Measurement SW: DASY Module SAR V16.2.0.1425

1900 MHz System Verification at 20 dBm (100 mW)

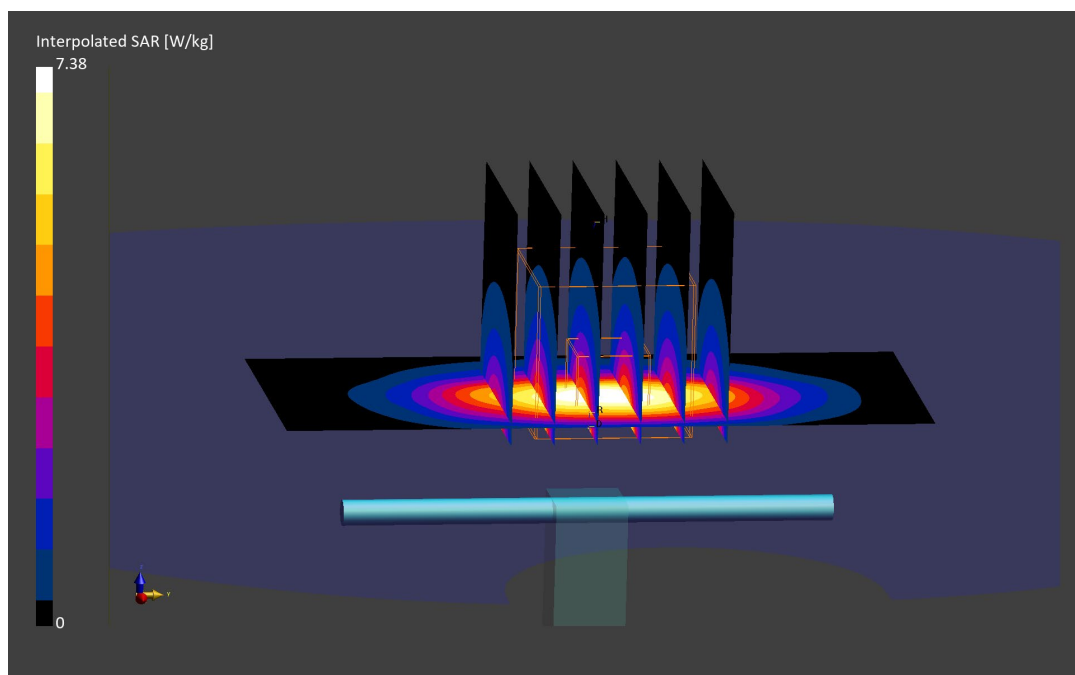
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 7.38 W/kg

SAR(1 g) = 4.01 W/kg; SAR(10 g) = 2.07 W/kg

Deviation (1 g) = 0.50%; Deviation (10 g) = -0.96%



ELEMENT

DUT: Dipole 1900.0 MHz; Type: D1900V2 - SN5d148

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

Medium: 1900 Body; Medium parameters used:

f = 1900.0 MHz; cond = 1.56 S/m; perm = 52.7; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 02/23/2023; Ambient Temp: 23.2°C; Tissue Temp: 20.4°C

Probe: EX3DV4 - SN7409; ConvF:(7.66,7.66,7.66); Calibrated: 2022-06-16

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

Electronics: DAE4 Sn1334; Calibrated: 2022-06-14

Phantom: Twin-SAM V5.0; Serial: 1792

Measurement SW: DASY Module SAR V16.2.0.1425

1900 MHz System Verification at 20 dBm (100 mW)

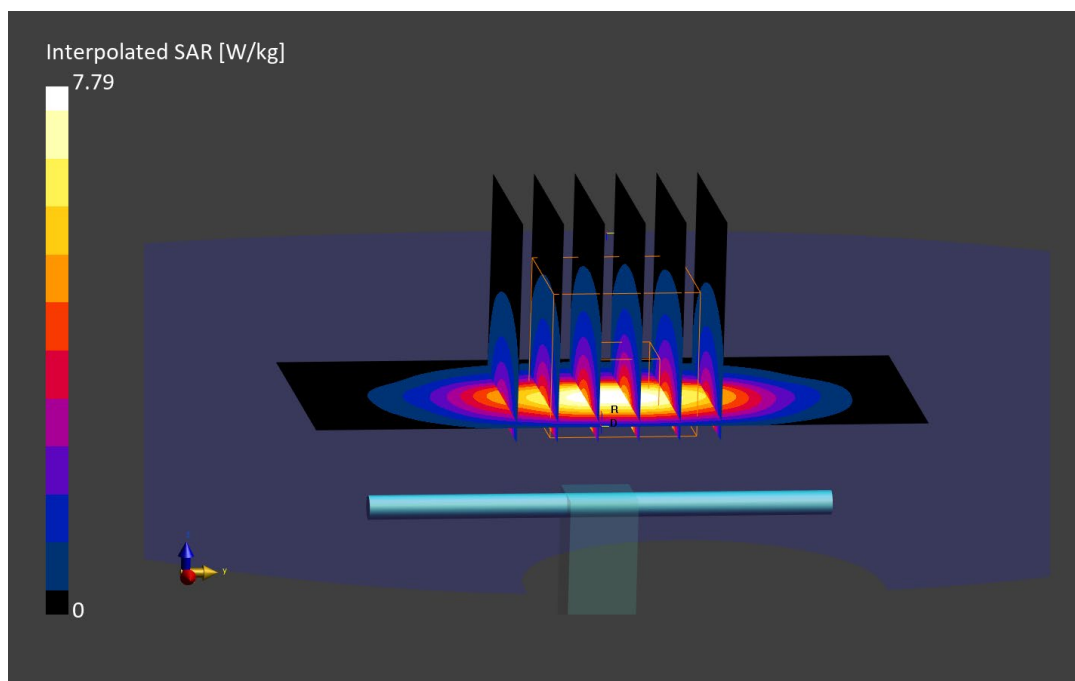
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 7.79 W/kg

SAR(1 g) = 4.29 W/kg; SAR(10 g) = 2.22 W/kg

Deviation (1 g) = 7.52%; Deviation (10 g) = 6.22%



ELEMENT

DUT: Dipole 1900.0 MHz; Type: D1900V2 - SN5d181

Communication System: UID: 0, CW; Frequency: 1900.0 MHz
Medium: 1900 Body; Medium parameters used:
f = 1900.0 MHz; cond = 1.51 S/m; perm = 52.2; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 03/15/2023; Ambient Temp: 21.5°C; Tissue Temp: 19.4°C

Probe: EX3DV4 - SN7639; ConvF:(8.96,8.96,8.96); Calibrated: 2022-11-14
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1646; Calibrated: 2022-11-10
Phantom: Twin-SAM V8.0; Serial: 1936
Measurement SW: DASY Module SAR V16.2.0.1425

1900 MHz System Verification at 20 dBm (100 mW)

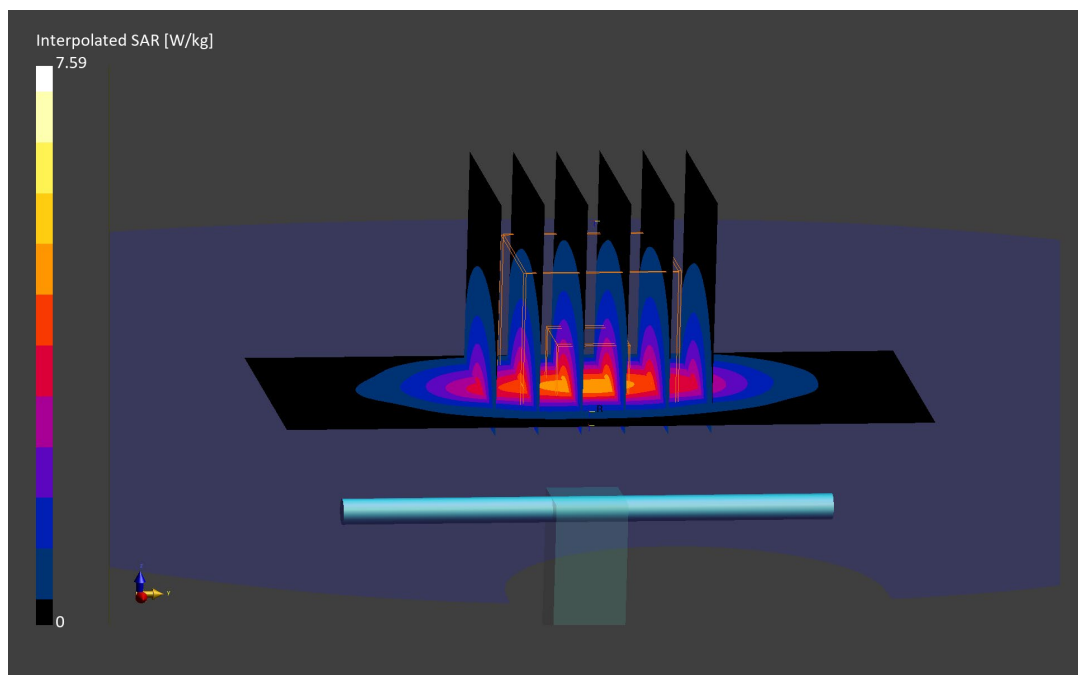
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 7.59 W/kg

SAR(1 g) = 4.04 W/kg; SAR(10 g) = 2.10 W/kg

Deviation (1 g) = 1.76%; Deviation (10 g) = 0.00%



ELEMENT

DUT: Dipole 2450.0 MHz; Type: D2450V2 - SN921

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

Medium: 2450 Body; Medium parameters used:

f = 2450.0 MHz; cond = 1.93 S/m; perm = 53.4; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 02/28/2023; Ambient Temp: 20.4°C; Tissue Temp: 19.6°C

Probe: EX3DV4 - SN7420; ConvF:(7.47,7.47,7.47); Calibrated: 2022-10-20

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

Electronics: DAE4 Sn1333; Calibrated: 2022-10-13

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

Measurement SW: DASY Module SAR V16.2.0.1425

2450 MHz System Verification at 20 dBm (100 mW)

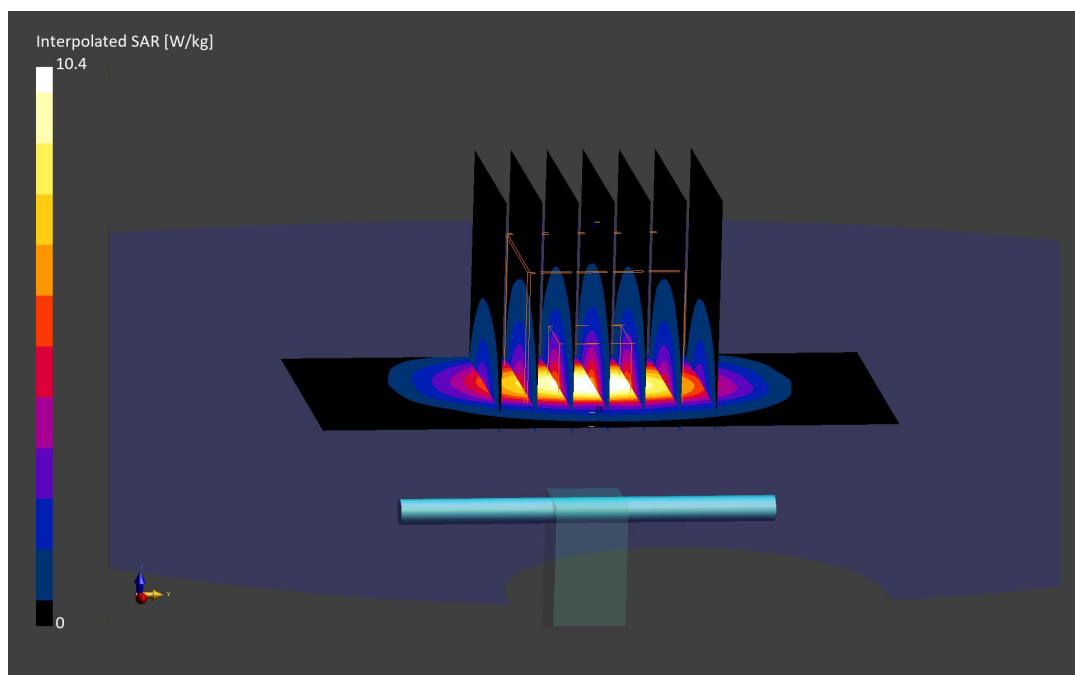
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 10.4 W/kg

SAR(1 g) = 5.10 W/kg; SAR(10 g) = 2.39 W/kg

Deviation (1 g) = 2.62%; Deviation (10 g) = 1.27%



ELEMENT

DUT: Dipole 2600.0 MHz; Type: D2600V2 - SN1068

Communication System: UID: 0, CW; Frequency: 2600.0 MHz
Medium: 2450 Body; Medium parameters used:
f = 2600.0 MHz; cond = 2.08 S/m; perm = 53.2; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 02/28/2023; Ambient Temp: 20.4°C; Tissue Temp: 19.6°C

Probe: EX3DV4 - SN7420; ConvF:(7.27,7.27,7.27); Calibrated: 2022-10-20
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1333; Calibrated: 2022-10-13
Phantom: Twin-SAM V8.0; Serial: 1736
Measurement SW: DASY Module SAR V16.2.0.1425

2600 MHz System Verification at 20 dBm (100 mW)

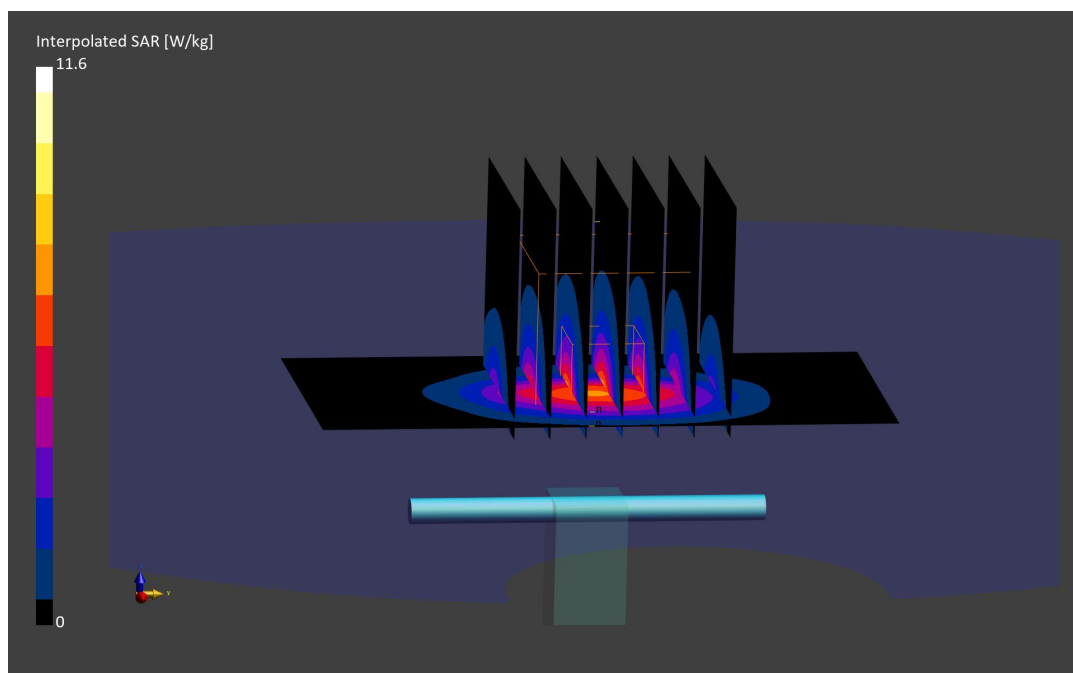
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 11.6 W/kg

SAR(1 g) = 5.48 W/kg; SAR(10 g) = 2.48 W/kg

Deviation (1 g) = 1.67%; Deviation (10 g) = 2.90%



ELEMENT

DUT: Dipole 5250.0 MHz; Type: D5GHzV2 - SN1191

Communication System: UID: 0, CW; Frequency: 5250.0 MHz
Medium: 5200-5800 Body; Medium parameters used:
f = 5250.0 MHz; cond = 5.19 S/m; perm = 48.6; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 02/28/2023; Ambient Temp: 22.3°C; Tissue Temp: 21.9°C

Probe: EX3DV4 - SN7659; ConvF:(5.21,5.21,5.21); Calibrated: 2022-04-20
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1407; Calibrated: 2022-04-13
Phantom: Twin-SAM V5.0; Serial: 1873
Measurement SW: DASY Module SAR V16.2.0.1425

5250 MHz System Verification at 17 dBm (50 mW)

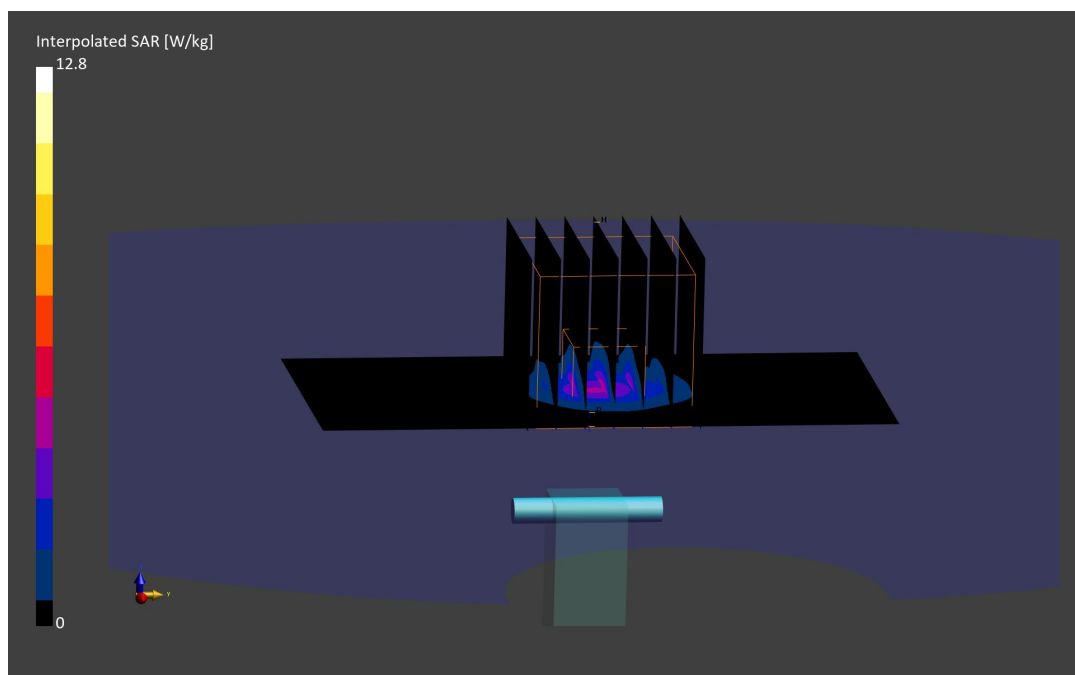
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 12.8 W/kg

SAR(1 g) = 3.54 W/kg; SAR(10 g) = 1.01 W/kg

Deviation (1 g) = -5.09%; Deviation (10 g) = -2.42%



ELEMENT

DUT: Dipole 5600.0 MHz; Type: D5GHzV2 - SN1191

Communication System: UID: 0, CW; Frequency: 5600.0 MHz
Medium: 5200-5800 Body; Medium parameters used:
f = 5600.0 MHz; cond = 5.69 S/m; perm = 47.9; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 02/28/2023; Ambient Temp: 22.3°C; Tissue Temp: 21.9°C

Probe: EX3DV4 - SN7659; ConvF:(4.6,4.6,4.6); Calibrated: 2022-04-20
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1407; Calibrated: 2022-04-13
Phantom: Twin-SAM V5.0; Serial: 1873
Measurement SW: DASY Module SAR V16.2.0.1425

5600 MHz System Verification at 17 dBm (50 mW)

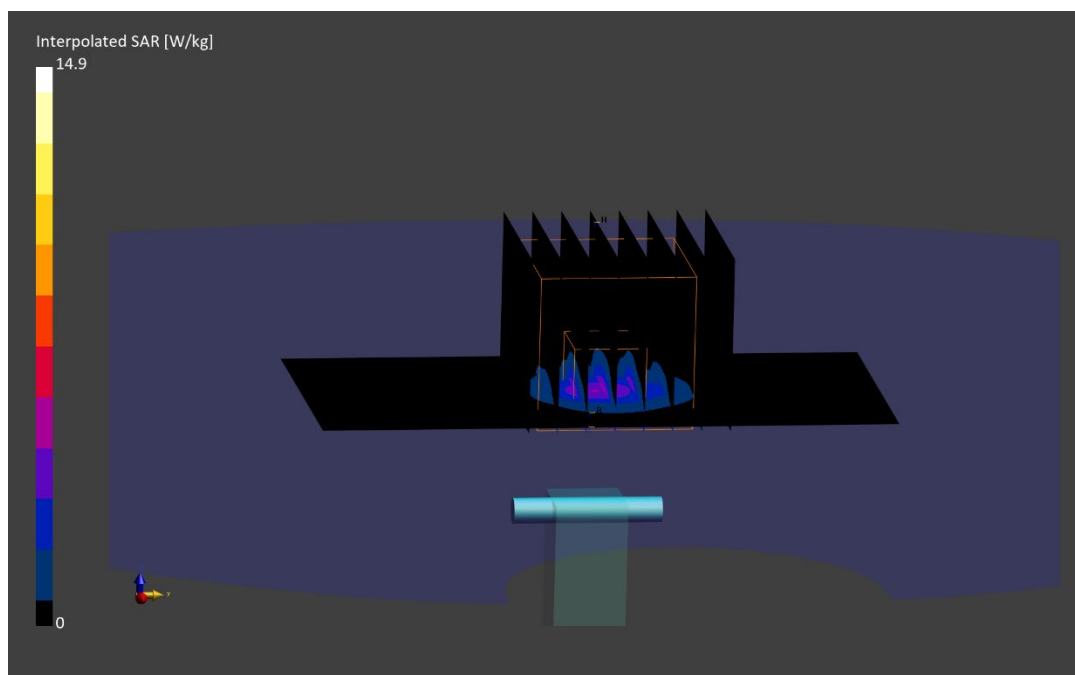
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 14.9 W/kg

SAR(1 g) = 3.76 W/kg; SAR(10 g) = 1.07 W/kg

Deviation (1 g) = -4.33%; Deviation (10 g) = -1.83%



ELEMENT

DUT: Dipole 5750.0 MHz; Type: D5GHzV2 - SN1191

Communication System: UID: 0, CW; Frequency: 5750.0 MHz
Medium: 5200-5800 Body; Medium parameters used:
f = 5750.0 MHz; cond = 5.91 S/m; perm = 47.7; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 02/28/2023; Ambient Temp: 22.3°C; Tissue Temp: 21.9°C

Probe: EX3DV4 - SN7659; ConvF:(4.67,4.67,4.67); Calibrated: 2022-04-20
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1407; Calibrated: 2022-04-13
Phantom: Twin-SAM V5.0; Serial: 1873
Measurement SW: DASY Module SAR V16.2.0.1425

5750 MHz System Verification at 17 dBm (50 mW)

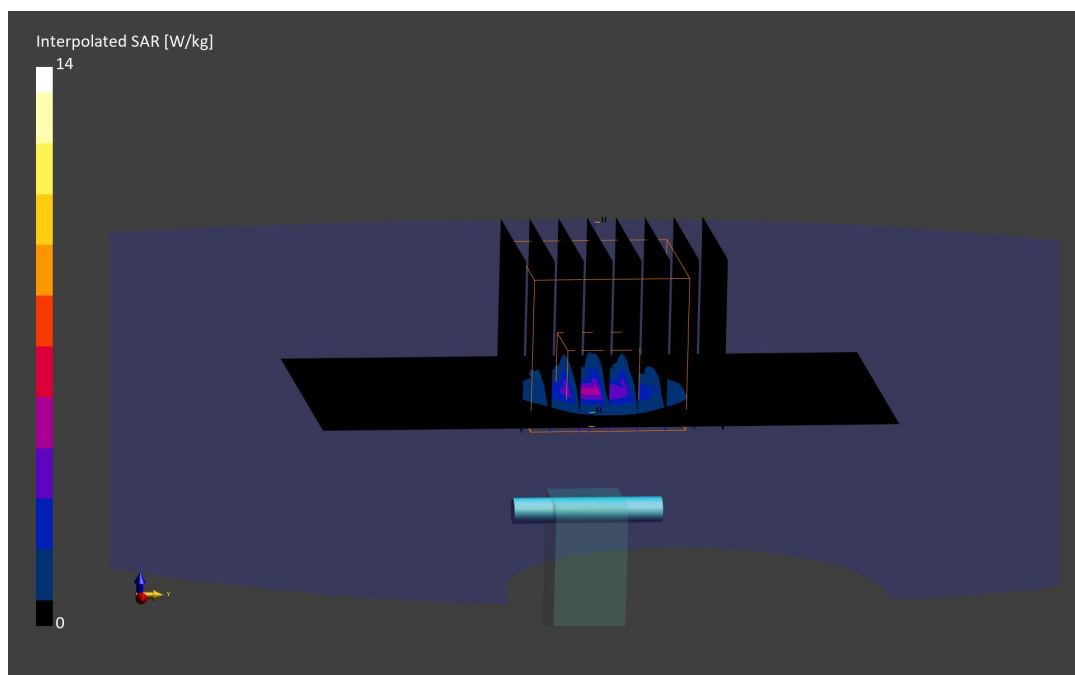
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 14.0 W/kg

SAR(1 g) = 3.50 W/kg; SAR(10 g) = 0.993 W/kg

Deviation (1 g) = -6.54%; Deviation (10 g) = -4.06%



ELEMENT

DUT: Dipole 5250.0 MHz; Type: D5GHzV2 - SN1057

Communication System: UID: 0, CW; Frequency: 5250.0 MHz
Medium: 5200-5800 Body; Medium parameters used:
f = 5250.0 MHz; cond = 5.17 S/m; perm = 47.4; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 03/06/2023; Ambient Temp: 23.0°C; Tissue Temp: 21.3°C

Probe: EX3DV4 - SN7659; ConvF:(5.21,5.21,5.21); Calibrated: 2022-04-20
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1407; Calibrated: 2022-04-13
Phantom: Twin-SAM V5.0; Serial: 1873
Measurement SW: DASY Module SAR V16.2.0.1425

5250 MHz System Verification at 17 dBm (50 mW)

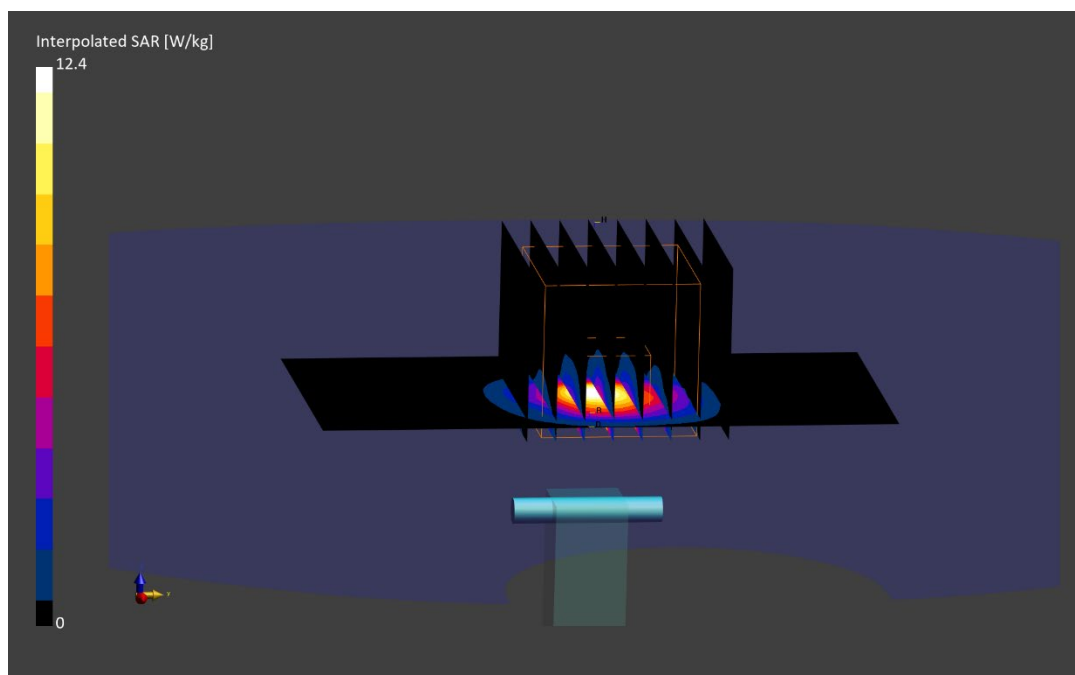
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 12.4 W/kg

SAR(1 g) = 3.46 W/kg; SAR(10 g) = 0.992 W/kg

Deviation (1 g) = -6.74%; Deviation (10 g) = -3.69%



ELEMENT

DUT: Dipole 5600.0 MHz; Type: D5GHzV2 - SN1057

Communication System: UID: 0, CW; Frequency: 5600.0 MHz
Medium: 5200-5800 Body; Medium parameters used:
f = 5600.0 MHz; cond = 5.66 S/m; perm = 46.8; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 03/06/2023; Ambient Temp: 23.0°C; Tissue Temp: 21.3°C

Probe: EX3DV4 - SN7659; ConvF:(4.6,4.6,4.6); Calibrated: 2022-04-20
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1407; Calibrated: 2022-04-13
Phantom: Twin-SAM V5.0; Serial: 1873
Measurement SW: DASY Module SAR V16.2.0.1425

5600 MHz System Verification at 17 dBm (50 mW)

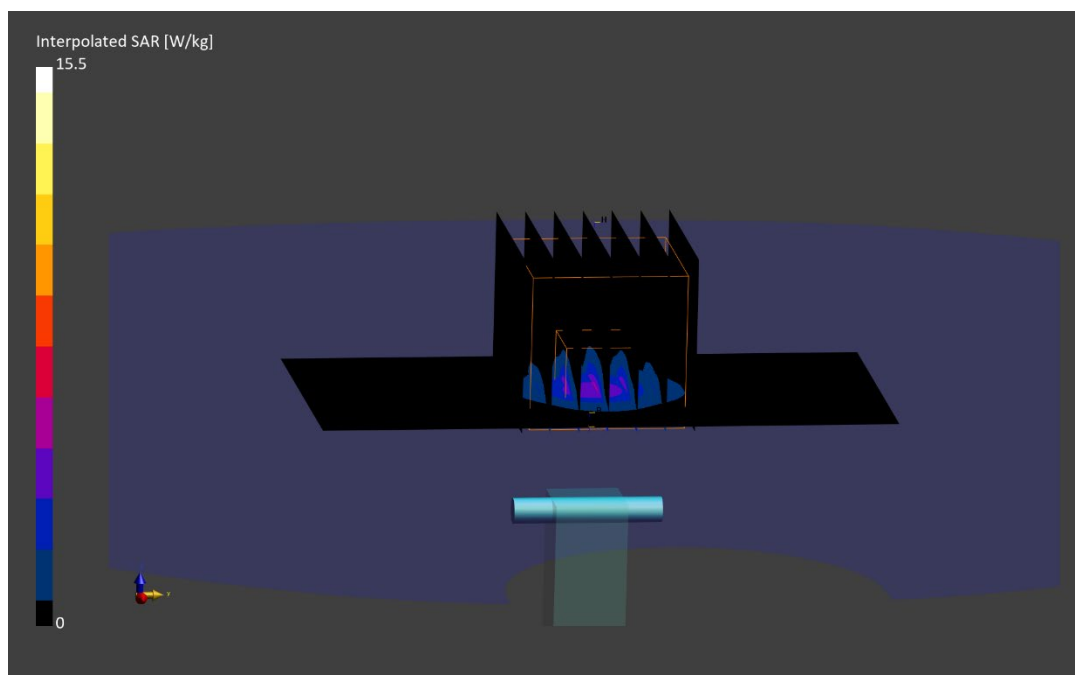
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 15.5 W/kg

SAR(1 g) = 3.94 W/kg; SAR(10 g) = 1.11 W/kg

Deviation (1 g) = 2.34%; Deviation (10 g) = 4.72%



ELEMENT

DUT: Dipole 5750.0 MHz; Type: D5GHzV2 - SN1057

Communication System: UID: 0, CW; Frequency: 5750.0 MHz
Medium: 5200-5800 Body; Medium parameters used:
f = 5750.0 MHz; cond = 5.89 S/m; perm = 46.5; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 03/06/2023; Ambient Temp: 23.0°C; Tissue Temp: 21.3°C

Probe: EX3DV4 - SN7659; ConvF:(4.67,4.67,4.67); Calibrated: 2022-04-20
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1407; Calibrated: 2022-04-13
Phantom: Twin-SAM V5.0; Serial: 1873
Measurement SW: DASY Module SAR V16.2.0.1425

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) = 14.5 W/kg

SAR(1 g) = 3.57 W/kg; SAR(10 g) = 1.01 W/kg

Deviation (1 g) = -4.67%; Deviation (10 g) = -2.42%

