APPENDIX B: SAR DIPOLE VERIFICATION PLOTS

ELEMENT

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

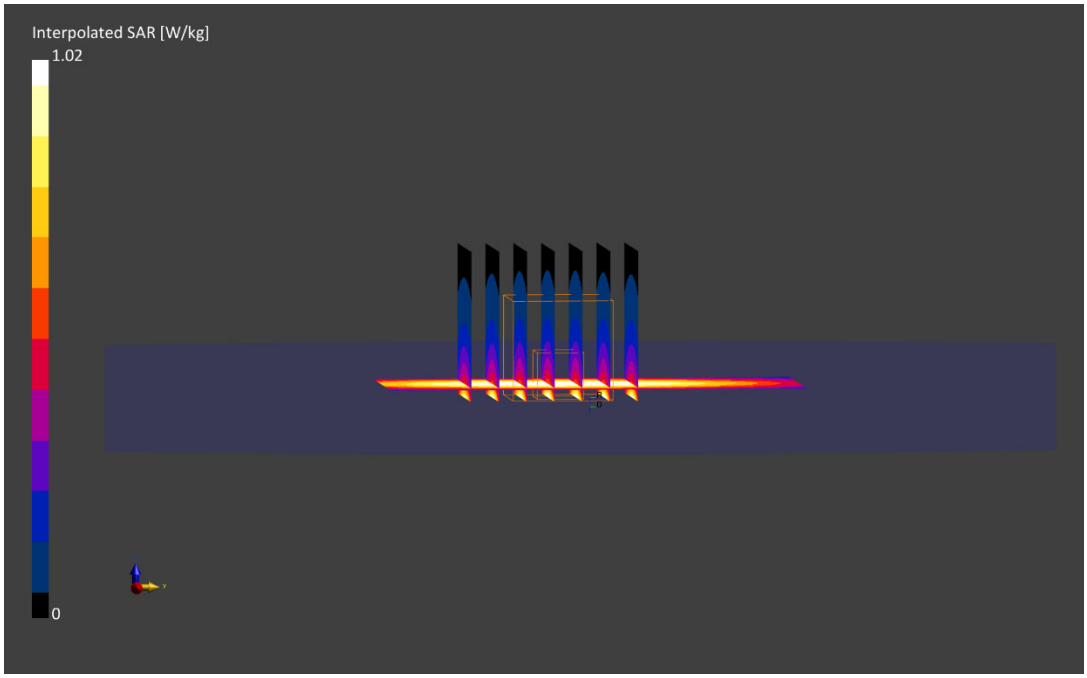
Communication System: UID: 0, CW; Frequency: 13.0 MHz
Medium: 30 Head; Medium parameters used:
f = 13.0 MHz; cond = 0.762 S/m; perm = 52.5; density = 1000 kg/m3
Phantom Section: Flat; Space: 0 mm

Test Date: 06/09/2022; Ambient Temp: 24.0°C; Tissue Temp: 21.9°C

Probe: EX3DV4 - SN7527; ConvF:(17.78,17.78,17.78); Calibrated: 2022-03-21
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1272; Calibrated: 2022-03-16
Phantom: ELI V8.0; Serial: 2077
Measurement SW: DASY Module SAR V16.0.2.136

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) = 1.02 W/kg
SAR(10 g) = 0.317 W/kg
Deviation (10 g) = -7.85%;



ELEMENT

DUT: Dipole 750.0 MHz; Type: D750V3 - SN1003

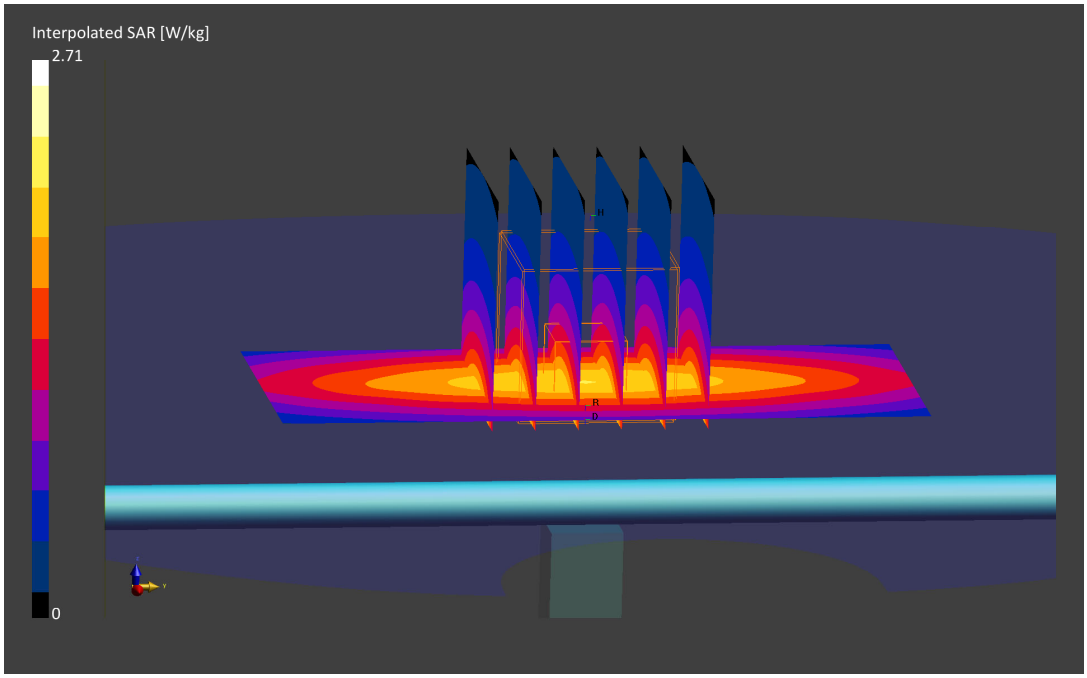
Communication System: UID: 0, CW; Frequency: 750.0 MHz
Medium: 750 Head; Medium parameters used:
f = 750.0 MHz; cond = 0.909 S/m; perm = 41.1; density = 1000 kg/m3
Phantom Section: Flat; Space: 15 mm

Test Date: 07/18/2022; Ambient Temp: 21.3°C; Tissue Temp: 21.8°C

Probe: EX3DV4 - SN7640; ConvF:(10.82,10.82,10.82); Calibrated: 2022-02-24
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1645; Calibrated: 2022-02-21
Phantom: Twin-SAM V5.0; Serial: 1868
Measurement SW: DASY Module SAR V16.0.0.116

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
Deviation (1 g) = 1.86%



ELEMENT

DUT: Dipole 835.0 MHz; Type: D835V2 - SN4d119

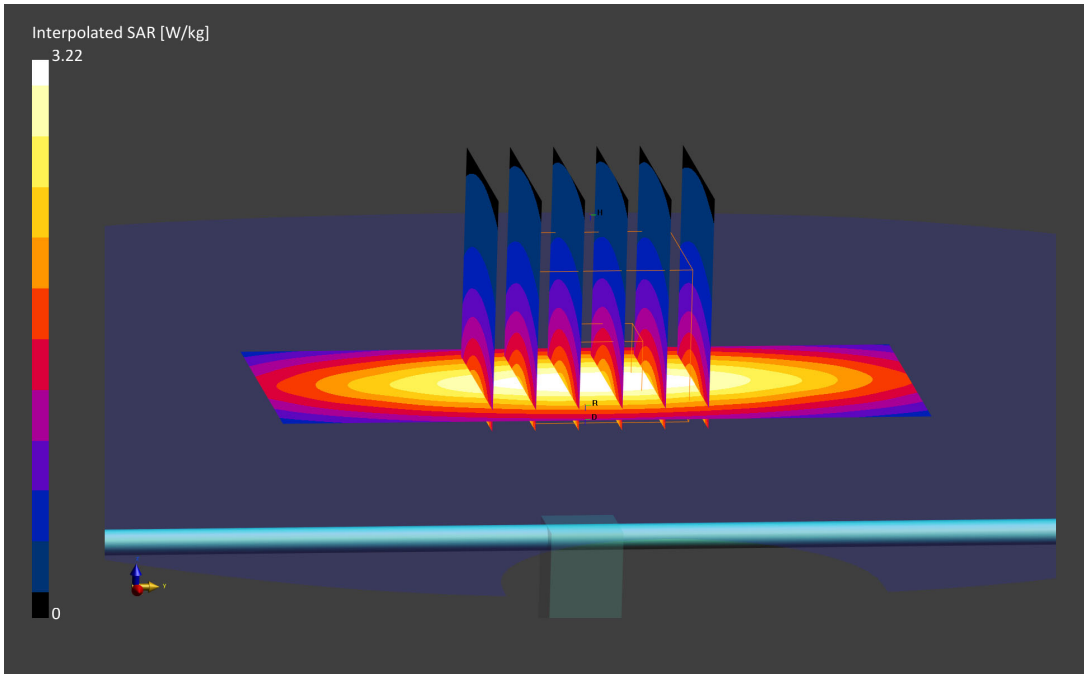
Communication System: UID: 0, CW; Frequency: 835.0 MHz
Medium: 835 Head; Medium parameters used:
f = 835.0 MHz; cond = 0.933 S/m; perm = 40.6; density = 1000 kg/m3
Phantom Section: Flat; Space: 15 mm

Test Date: 06/07/2022; Ambient Temp: 21.0°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7640; ConvF:(10.54,10.54,10.54); Calibrated: 2022-02-24
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1645; Calibrated: 2022-02-21
Phantom: Twin-SAM V5.0; Serial: 1868
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) = 3.22 W/kg
SAR(1 g) = 2.03 W/kg
Deviation (1 g) = 5.07%



ELEMENT

DUT: Dipole 835.0 MHz; Type: D835V2 - SN4d119

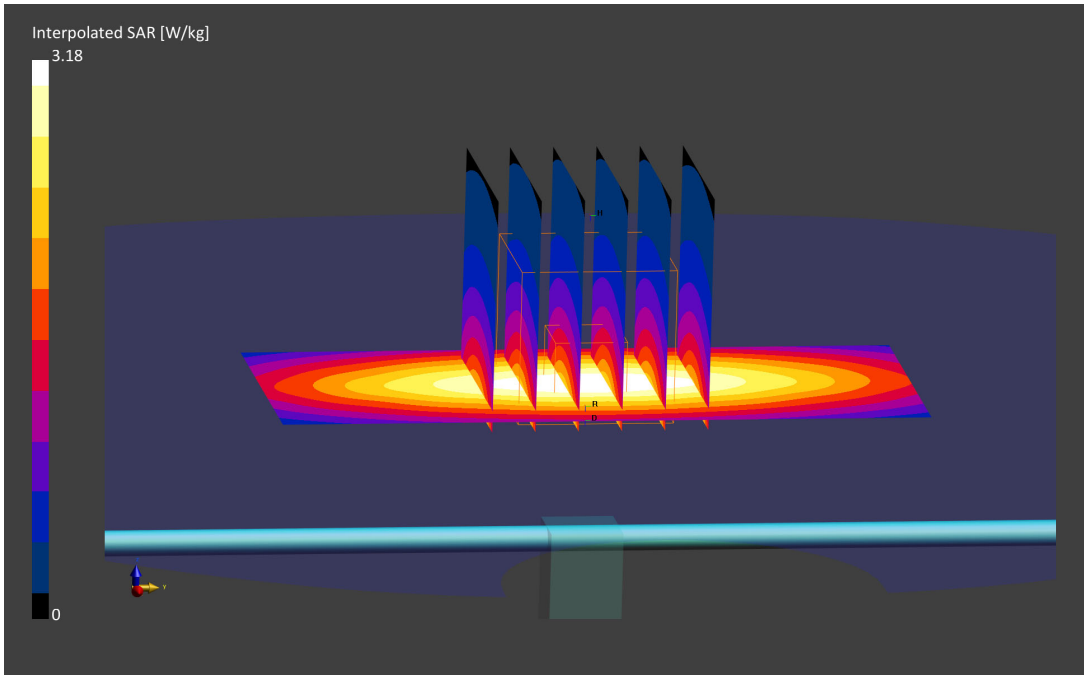
Communication System: UID: 0, CW; Frequency: 835.0 MHz
Medium: 835 Head; Medium parameters used:
f = 835.0 MHz; cond = 0.916 S/m; perm = 40.2; density = 1000 kg/m3
Phantom Section: Flat; Space: 15 mm

Test Date: 06/10/2022; Ambient Temp: 19.5°C; Tissue Temp: 19.8°C

Probe: EX3DV4 - SN7640; ConvF:(10.54,10.54,10.54); Calibrated: 2022-02-24
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1645; Calibrated: 2022-02-21
Phantom: Twin-SAM V5.0; Serial: 1868
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) = 3.18 W/kg
SAR(1 g) = 2.02 W/kg
Deviation (1 g) = 4.55%



ELEMENT

DUT: Dipole 1750.0 MHz; Type: D1750V2 - SN1051

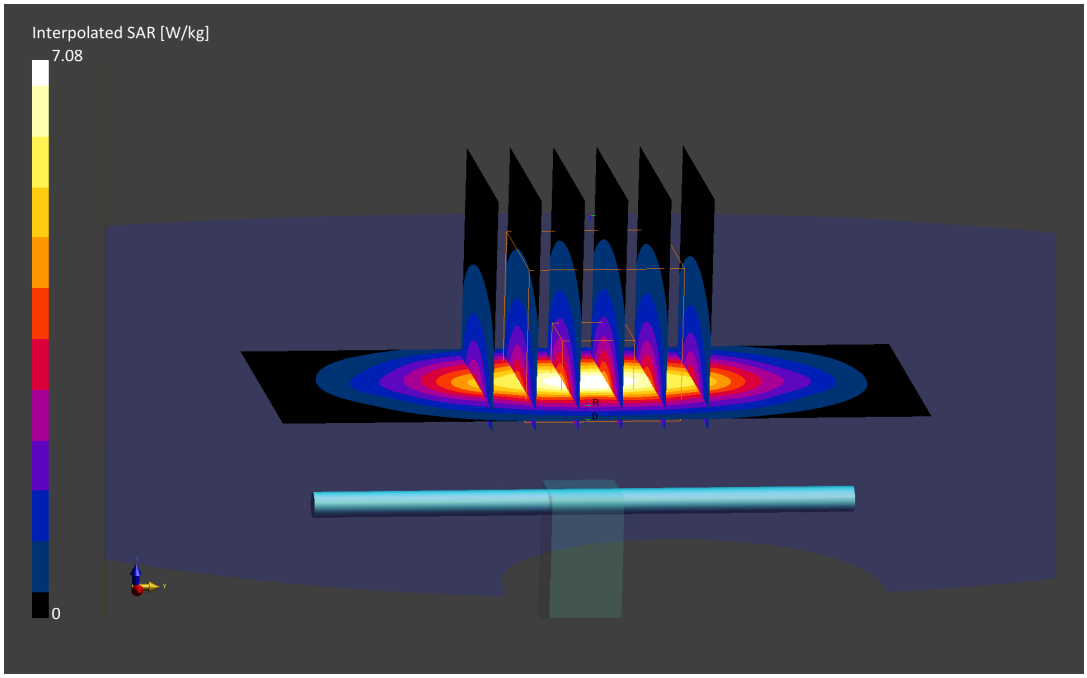
Communication System: UID: 0, CW; Frequency: 1750.0 MHz
Medium: 1750 Head; Medium parameters used:
f = 1750.0 MHz; cond = 1.36 S/m; perm = 39.9; density = 1000 kg/m3
Phantom Section: Flat; Space: 10 mm

Test Date: 06/19/2022; Ambient Temp: 19.8°C; Tissue Temp: 19.9°C

Probe: EX3DV4 - SN7640; ConvF:(9.22,9.22,9.22); Calibrated: 2022-02-24
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1645; Calibrated: 2022-02-21
Phantom: Twin-SAM V5.0; Serial: 1868
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) = 7.08 W/kg
SAR(1 g) = 3.75 W/kg
Deviation (1 g) = 0.54%



ELEMENT

DUT: Dipole 1900.0 MHz; Type: D1900V2 - SN5d141

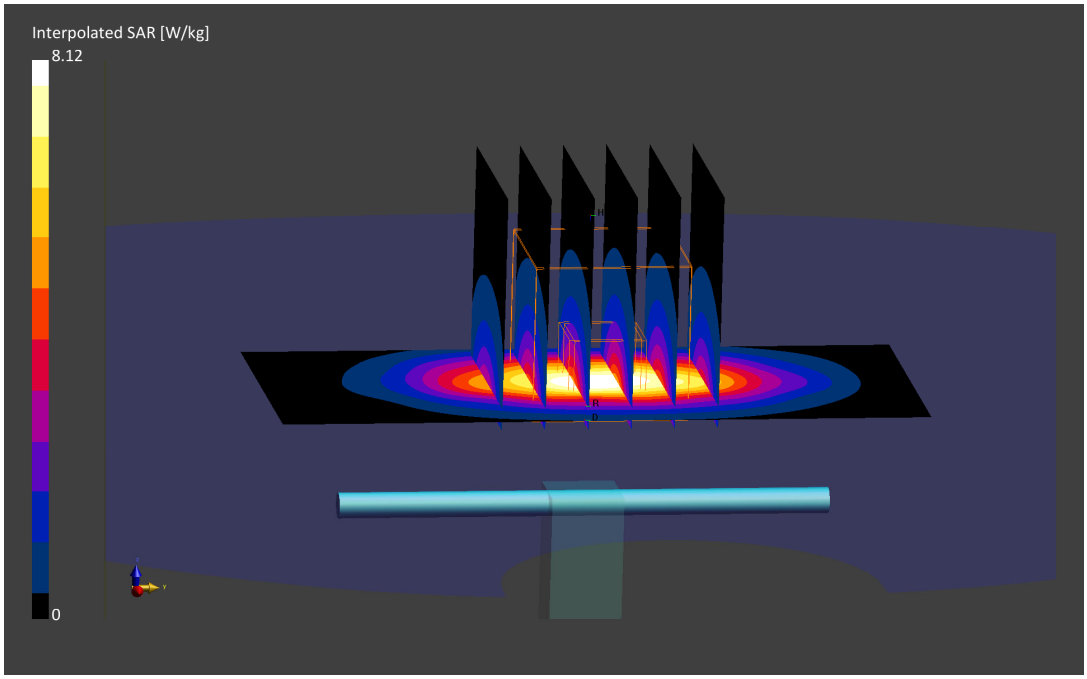
Communication System: UID: 0, CW; Frequency: 1900.0 MHz
Medium: 1900 Head; Medium parameters used:
f = 1900.0 MHz; cond = 1.44 S/m; perm = 39.7; density = 1000 kg/m3
Phantom Section: Flat; Space: 10 mm

Test Date: 06/19/2022; Ambient Temp: 19.8°C; Tissue Temp: 19.9°C

Probe: EX3DV4 - SN7640; ConvF:(8.86,8.86,8.86); Calibrated: 2022-02-24
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1645; Calibrated: 2022-02-21
Phantom: Twin-SAM V5.0; Serial: 1868
Measurement SW: DASY Module SAR V16.0.0.116

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) = 8.12 W/kg
SAR(1 g) = 4.15 W/kg
Deviation (1 g) = 2.98%



ELEMENT

DUT: Dipole 2450.0 MHz; Type: D2450V2 - SN797

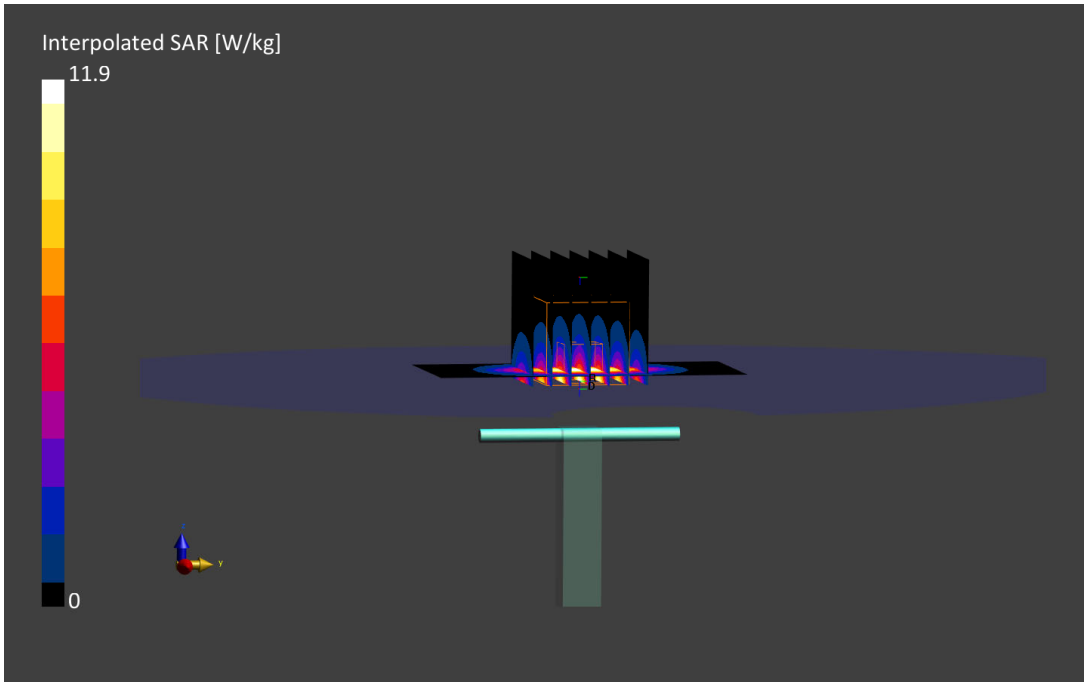
Communication System: UID: 0, CW; Frequency: 2450.0 MHz
Medium: 2450 Head; Medium parameters used:
f = 2450.0 MHz; cond = 1.86 S/m; perm = 37.8; density = 1000 kg/m3
Phantom Section: Flat; Space: 10 mm

Test Date: 06/24/2022; Ambient Temp: 21.9°C; Tissue Temp: 20.6°C

Probe: EX3DV4 - SN7410; ConvF:(7.46,7.46,7.46); Calibrated: 2021-07-20
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1583; Calibrated: 2021-07-13
Phantom: Twin-SAM V5.0; Serial: 1792
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) = 5.57 W/kg
Deviation (1 g) = 6.30%;



ELEMENT

DUT: Dipole 2450.0 MHz; Type: D2450V2 - SN981

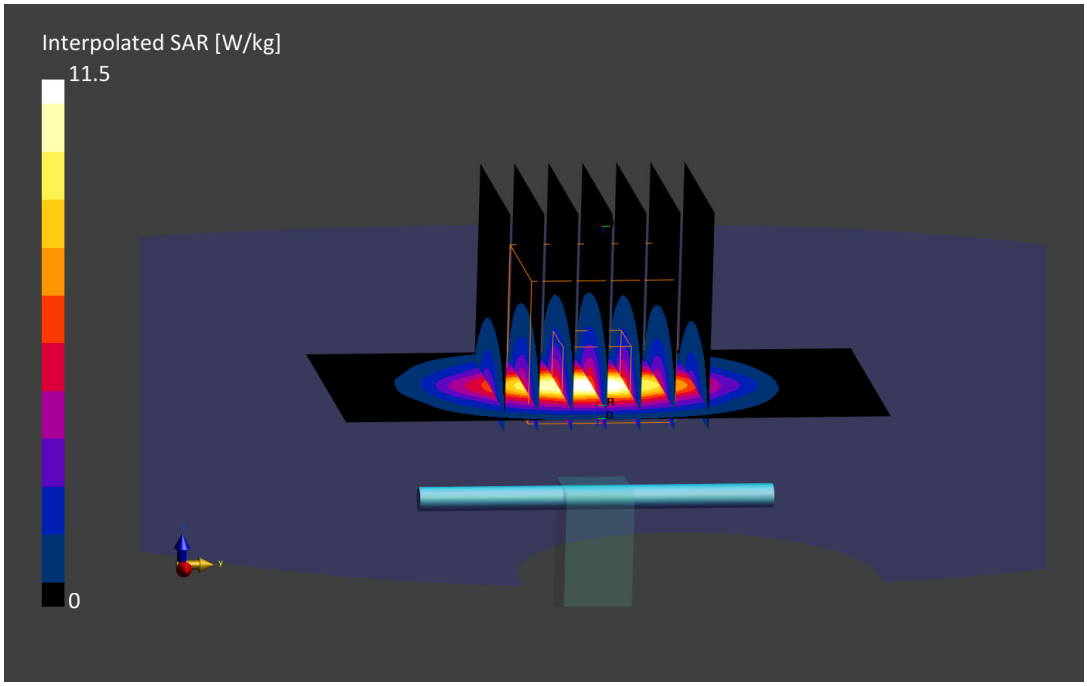
Communication System: UID: 0, CW; Frequency: 2450.0 MHz
Medium: 2450 Head; Medium parameters used:
f = 2450.0 MHz; cond = 1.75 S/m; perm = 39.5; density = 1000 kg/m3
Phantom Section: Flat; Space: 10 mm

Test Date: 07/24/2022; Ambient Temp: 23.3°C; Tissue Temp: 22.2°C

Probe: EX3DV4 - SN7409; ConvF:(7.21,7.21,7.21); 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 V16.0.2.136

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) = 11.5 W/kg
SAR(1 g) = 5.21 W/kg
Deviation (1 g) = -3.34%



ELEMENT

DUT: Dipole 2450.0 MHz; Type: D2450V2 - SN797

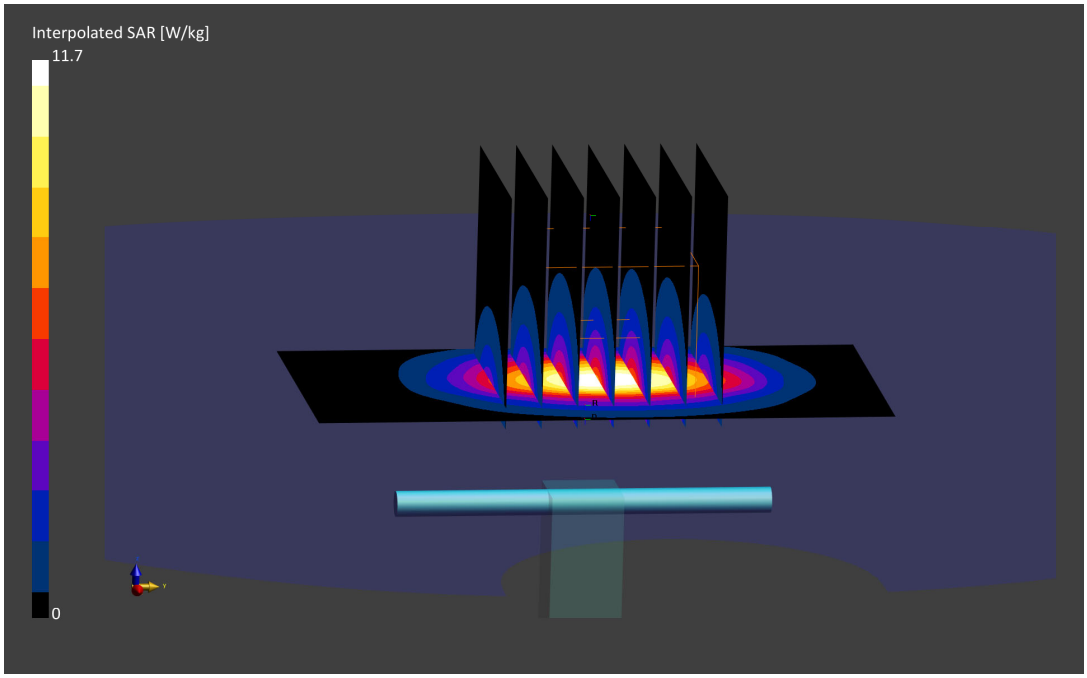
Communication System: UID: 0, CW; Frequency: 2450.0 MHz
Medium: 2450 Head; Medium parameters used:
f = 2450.0 MHz; cond = 1.87 S/m; perm = 40.3; density = 1000 kg/m3
Phantom Section: Flat; Space: 10 mm

Test Date: 07/28/2022; Ambient Temp: 21.9°C; Tissue Temp: 21.7°C

Probe: EX3DV4 - SN7538; ConvF:(7.58,7.58,7.58); Calibrated: 2021-11-16
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1323; Calibrated: 2021-11-10
Phantom: Twin-SAM V8.0; Serial: 2056
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) = 11.7 W/kg
SAR(1 g) = 5.51 W/kg
Deviation (1 g) = 5.15%



ELEMENT

DUT: Dipole 2600.0 MHz; Type: D2600V2 - SN1071

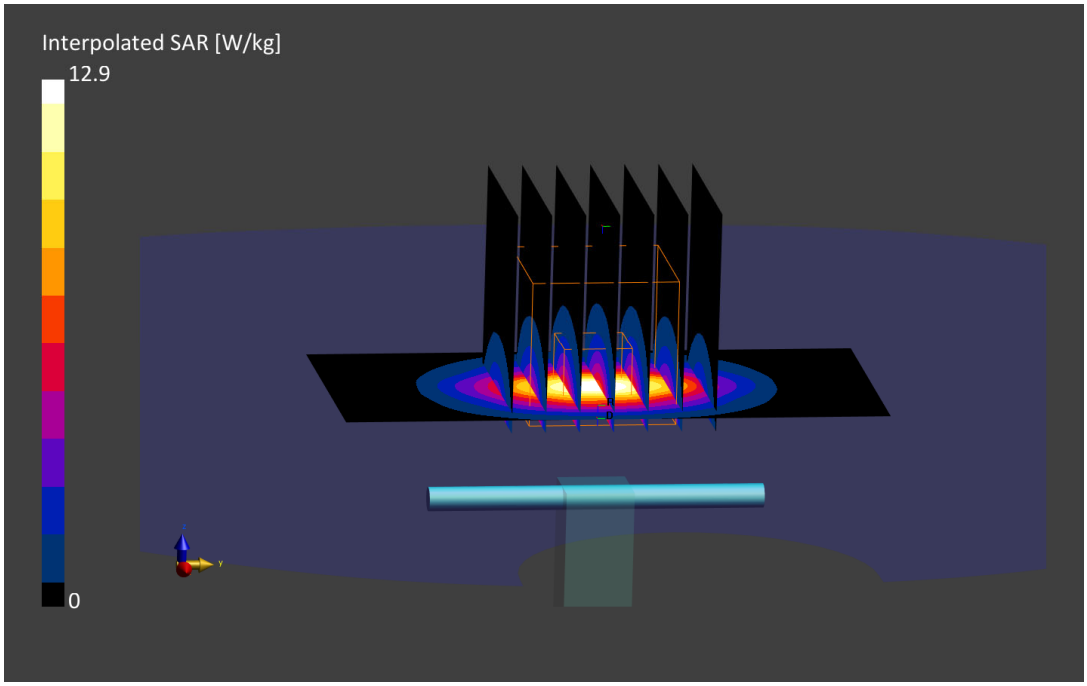
Communication System: UID: 0, CW; Frequency: 2600.0 MHz
Medium: 2450 Head; Medium parameters used:
f = 2600.0 MHz; cond = 1.92 S/m; perm = 39.0; density = 1000 kg/m3
Phantom Section: Flat; Space: 10 mm

Test Date: 07/24/2022; Ambient Temp: 23.3°C; Tissue Temp: 22.2°C

Probe: EX3DV4 - SN7409; ConvF:(6.97,6.97,6.97); 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 V16.0.2.136

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) = 13.0 W/kg
SAR(1 g) = 5.52 W/kg
Deviation (1 g) = -1.60%



ELEMENT

DUT: Dipole 5250.0 MHz; Type: D5GHzV2 - SN1057

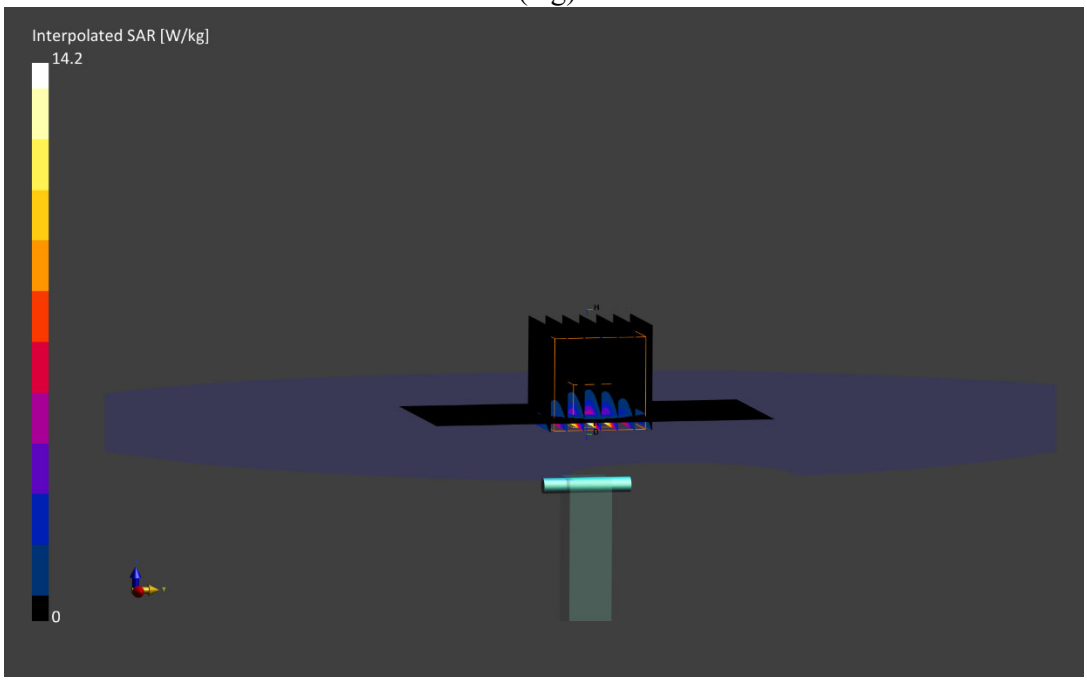
Communication System: UID: 0, CW; Frequency: 5250.0 MHz
Medium: 5200-5800 Head; Medium parameters used:
f = 5250.0 MHz; cond = 4.56 S/m; perm = 35.1; density = 1000 kg/m3
Phantom Section: Flat; Space: 10 mm

Test Date: 07/11/2022; Ambient Temp: 23.3°C; Tissue Temp: 21.7°C

Probe: EX3DV4 - SN7417; ConvF:(5.57,5.57,5.57); Calibrated: 2022-02-22
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn665; Calibrated: 2022-02-22
Phantom: Twin-SAM V8.0; Serial: 2060
Measurement SW: DASY Module SAR V16.0.2.83

5250 MHz System Verification at 17 dBm (50 mW)

Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm
Zoom Scan (22.0 x 22.0 x 22.0): Measurement grid: dx=4.0 mm, dy=4.0 mm, dz=1.4 mm; Graded Ratio: 1.4
Peak SAR (extrapolated) = 14.2 W/kg
SAR(1 g) = 3.71 W/kg
Deviation (1 g) = -8.62%



ELEMENT

DUT: Dipole 5600.0 MHz; Type: D5GHzV2 - SN1057

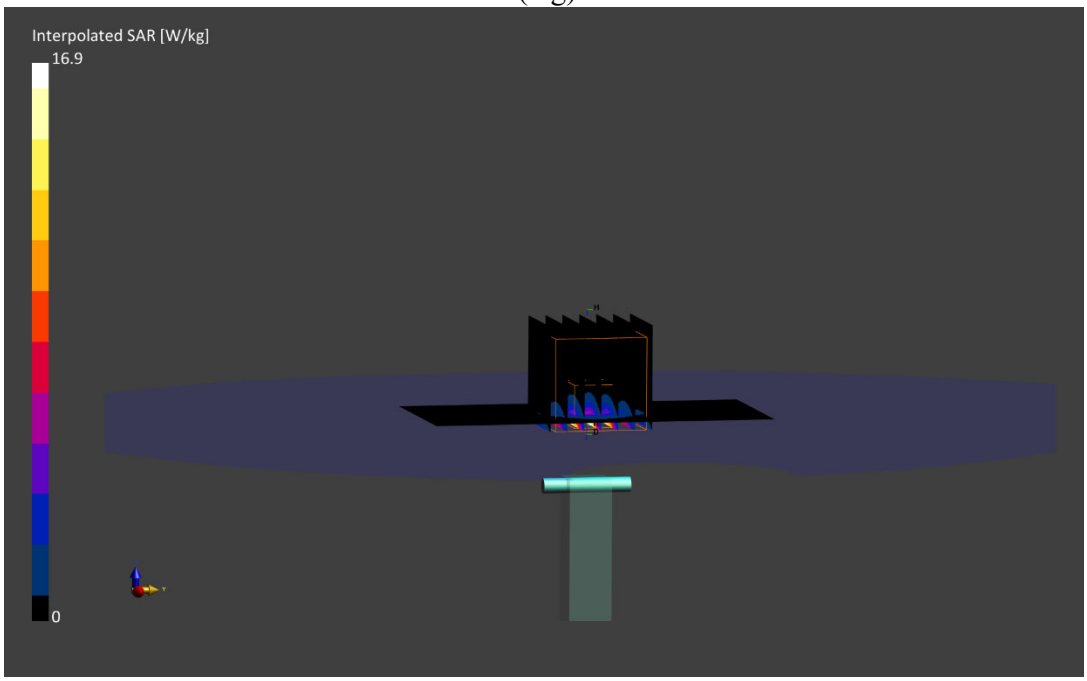
Communication System: UID: 0, CW; Frequency: 5600.0 MHz
Medium: 5200-5800 Head; Medium parameters used:
f = 5600.0 MHz; cond = 4.94 S/m; perm = 34.5; density = 1000 kg/m3
Phantom Section: Flat; Space: 10 mm

Test Date: 07/11/2022; Ambient Temp: 23.3°C; Tissue Temp: 21.7°C

Probe: EX3DV4 - SN7417; ConvF:(4.95,4.95,4.95); Calibrated: 2022-02-22
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn665; Calibrated: 2022-02-22
Phantom: Twin-SAM V8.0; Serial: 2060
Measurement SW: DASY Module SAR V16.0.2.83

5600 MHz System Verification at 17 dBm (50 mW)

Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm
Zoom Scan (22.0 x 22.0 x 22.0): Measurement grid: dx=4.0 mm, dy=4.0 mm, dz=1.4 mm; Graded Ratio: 1.4
Peak SAR (extrapolated) = 16.9 W/kg
SAR(1 g) = 4.13 W/kg
Deviation (1 g) = -1.90%



ELEMENT

DUT: Dipole 5750.0 MHz; Type: D5GHzV2 - SN1057

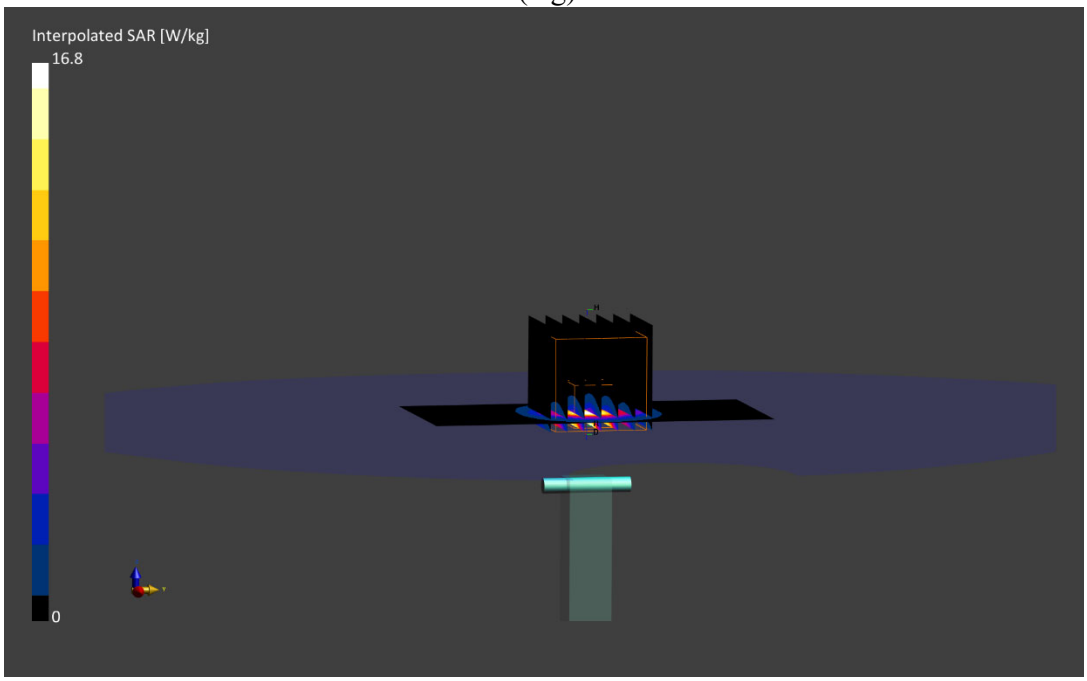
Communication System: UID: 0, CW; Frequency: 5750.0 MHz
Medium: 5200-5800 Head; Medium parameters used:
f = 5750.0 MHz; cond = 5.11 S/m; perm = 34.2; density = 1000 kg/m3
Phantom Section: Flat; Space: 10 mm

Test Date: 07/11/2022; Ambient Temp: 23.3°C; Tissue Temp: 21.7°C

Probe: EX3DV4 - SN7417; ConvF:(5.09,5.09,5.09); Calibrated: 2022-02-22
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn665; Calibrated: 2022-02-22
Phantom: Twin-SAM V8.0; Serial: 2060
Measurement SW: DASY Module SAR V16.0.2.83

5750 MHz System Verification at 17 dBm (50 mW)

Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm
Zoom Scan (22.0 x 22.0 x 22.0): Measurement grid: dx=4.0 mm, dy=4.0 mm, dz=1.4 mm; Graded Ratio: 1.4
Peak SAR (extrapolated) = 16.8 W/kg
SAR(1 g) = 3.98 W/kg
Deviation (1 g) = -1.49%



ELEMENT

DUT: Dipole 5800.0 MHz; Type: D5GHzV2 - SN1057

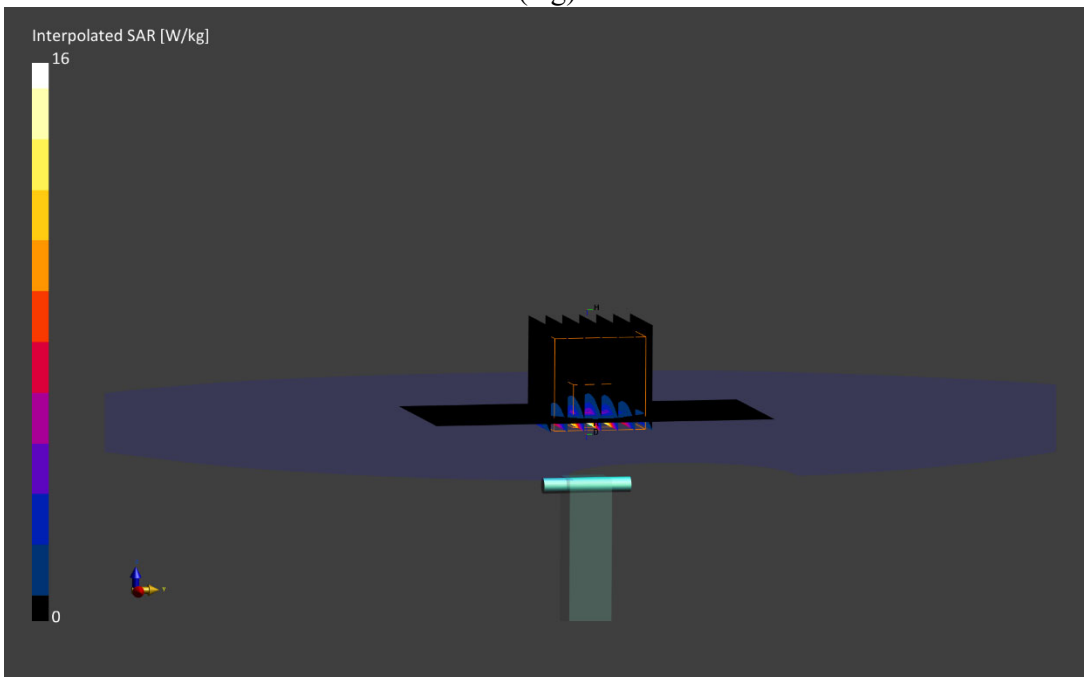
Communication System: UID: 0, CW; Frequency: 5800.0 MHz
Medium: 5200-5800 Head; Medium parameters used:
f = 5800.0 MHz; cond = 5.17 S/m; perm = 34.1; density = 1000 kg/m3
Phantom Section: Flat; Space: 10 mm

Test Date: 07/11/2022; Ambient Temp: 23.3°C; Tissue Temp: 21.7°C

Probe: EX3DV4 - SN7417; ConvF:(5.09,5.09,5.09); Calibrated: 2022-02-22
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn665; Calibrated: 2022-02-22
Phantom: Twin-SAM V8.0; Serial: 2060
Measurement SW: DASY Module SAR V16.0.2.83

5800 MHz System Verification at 17 dBm (50 mW)

Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm
Zoom Scan (22.0 x 22.0 x 22.0): Measurement grid: dx=4.0 mm, dy=4.0 mm, dz=1.4 mm; Graded Ratio: 1.4
Peak SAR (extrapolated) = 16.0 W/kg
SAR(1 g) = 3.77 W/kg
Deviation (1 g) = -8.16%



ELEMENT

DUT: Dipole 750.0 MHz; Type: D750V3 - SN1046

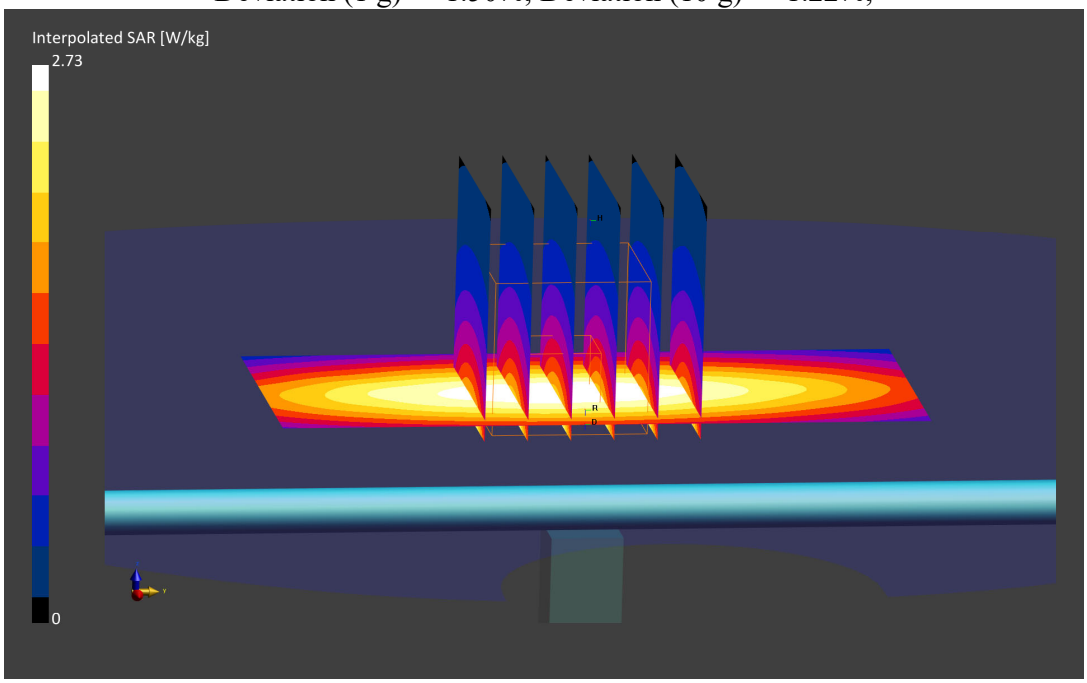
Communication System: UID: 0, CW; Frequency: 750.0 MHz
Medium: 750 Body; Medium parameters used:
f = 750.0 MHz; cond = 0.982 S/m; perm = 53.2; density = 1000 kg/m3
Phantom Section: Flat; Space: 15 mm

Test Date: 06/07/2022; Ambient Temp: 21.1°C; Tissue Temp: 20.9°C

Probe: EX3DV4 - SN7565; ConvF:(9.78,9.78,9.78); Calibrated: 2021-11-15
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1466; Calibrated: 2021-11-11
Phantom: Twin-SAM V8.0; Serial: 1934
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) = 2.73 W/kg
SAR(1 g) = 1.71 W/kg; SAR(10 g) = 1.13 W/kg
Deviation (1 g) = -1.50%; Deviation (10 g) = -1.22%;



ELEMENT

DUT: Dipole 750.0 MHz; Type: D750V3 - SN1046

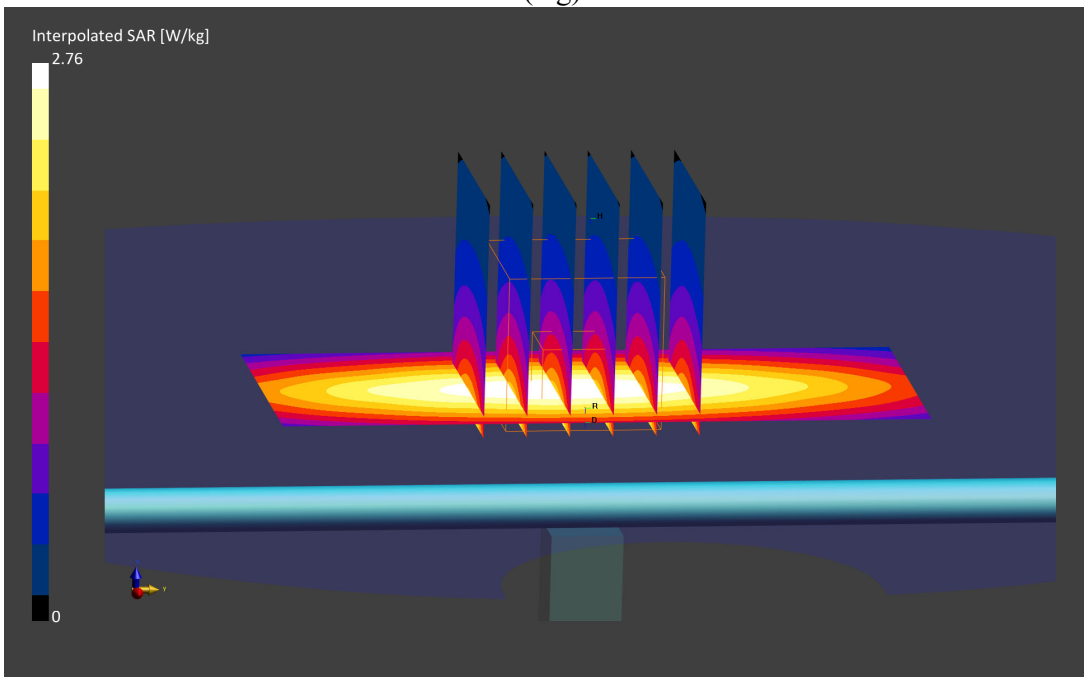
Communication System: UID: 0, CW; Frequency: 750.0 MHz
Medium: 750 Body; Medium parameters used:
f = 750.0 MHz; cond = 0.986 S/m; perm = 53.7; density = 1000 kg/m3
Phantom Section: Flat; Space: 15 mm

Test Date: 06/09/2022; Ambient Temp: 21.9°C; Tissue Temp: 20.9°C

Probe: EX3DV4 - SN7565; ConvF:(9.78,9.78,9.78); Calibrated: 2021-11-15
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1466; Calibrated: 2021-11-11
Phantom: Twin-SAM V8.0; Serial: 1934
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) = 2.76 W/kg
SAR(1 g) = 1.74 W/kg
Deviation (1 g) = 0.23%



ELEMENT

DUT: Dipole 750.0 MHz; Type: D750V3 - SN1046

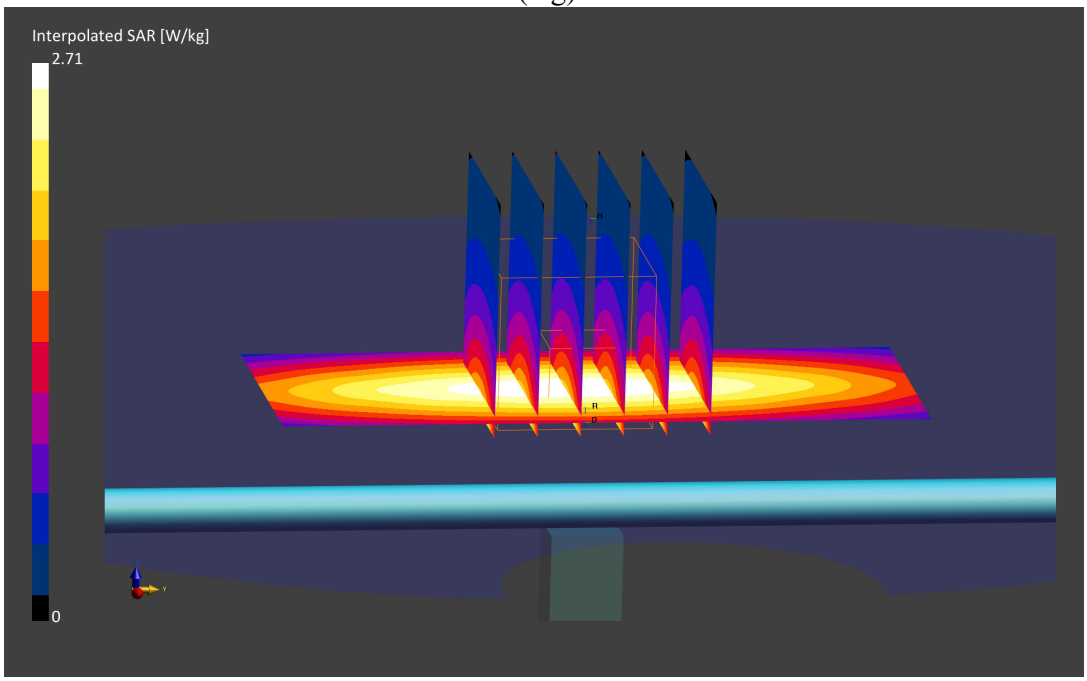
Communication System: UID: 0, CW; Frequency: 750.0 MHz
Medium: 750 Body; Medium parameters used:
f = 750.0 MHz; cond = 0.967 S/m; perm = 53.4; density = 1000 kg/m3
Phantom Section: Flat; Space: 15 mm

Test Date: 06/14/2022; Ambient Temp: 22.6°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN7565; ConvF:(9.78,9.78,9.78); Calibrated: 2021-11-15
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1466; Calibrated: 2021-11-11
Phantom: Twin-SAM V8.0; Serial: 1934
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) = 2.71 W/kg
SAR(1 g) = 1.71 W/kg
Deviation (1 g) = -1.50%



ELEMENT

DUT: Dipole 750 MHz; Type: D750V3; Serial: 1046

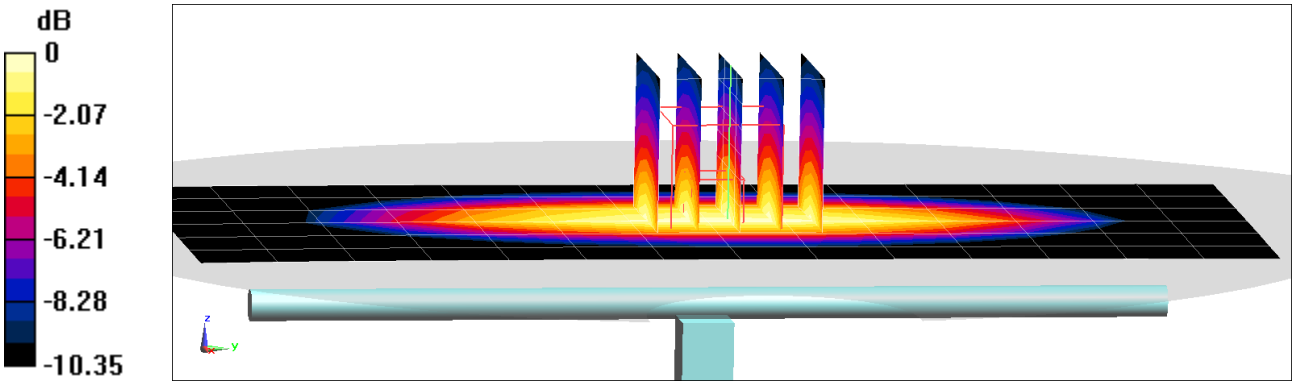
Communication System: UID 0, CW; Frequency: 750 MHz;
Medium: 750 Body Medium parameters used:
f = 750 MHz; σ = 0.971 S/m; ε_r = 53.593; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 1.5 cm

Test Date: 06/14/2022; Ambient Temp: 20.6°C; Tissue Temp: 20.6°C

Probe: EX3DV4 - SN7558; ConvF(10.38, 10.38, 10.38) @ 750 MHz; Calibrated: 9/17/2021
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1364; Calibrated: 9/13/2021
Phantom: Twin-SAM V5.0 (30); Type: QD 000 P40 CD; Serial: 1626
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7501)

750 MHz System Verification at 23.0 dBm (200 mW)

Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Peak SAR (extrapolated) = 2.66 W/kg
SAR(10 g) = 1.16 W/kg
Deviation(10 g) = 1.40%



0 dB = 2.35 W/kg = 3.71 dBW/kg

ELEMENT

DUT: Dipole 750.0 MHz; Type: D750V3 - SN1046

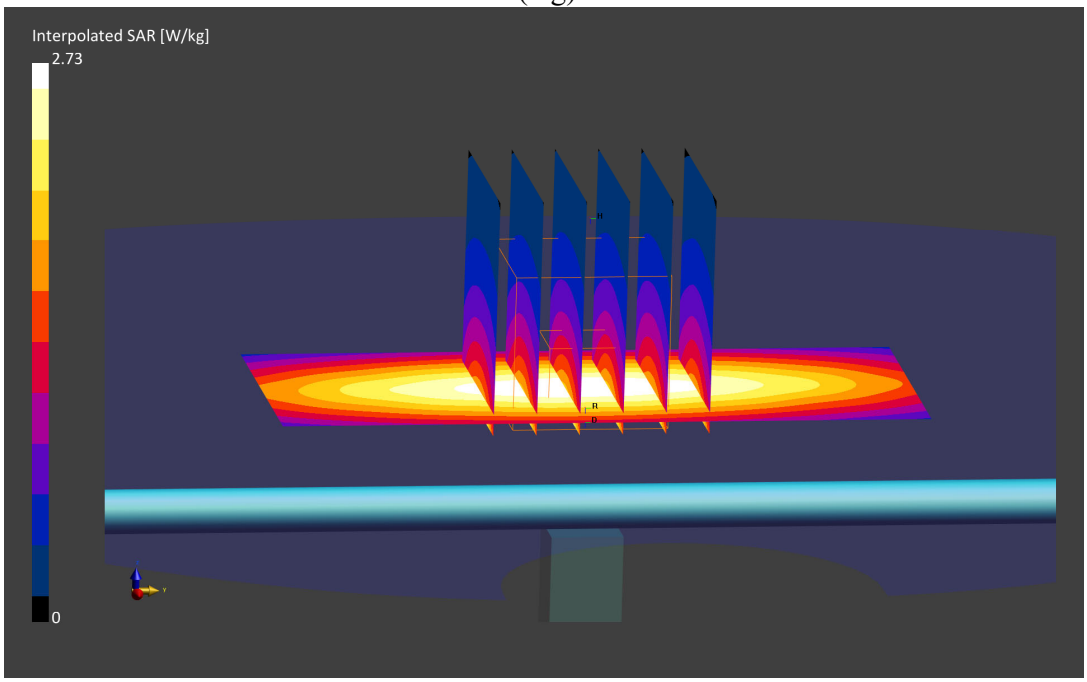
Communication System: UID: 0, CW; Frequency: 750.0 MHz
Medium: 750 Body; Medium parameters used:
f = 750.0 MHz; cond = 0.938 S/m; perm = 53.0; density = 1000 kg/m3
Phantom Section: Flat; Space: 15 mm

Test Date: 07/20/2022; Ambient Temp: 22.8°C; Tissue Temp: 20.3°C

Probe: EX3DV4 - SN7565; ConvF:(9.78,9.78,9.78); Calibrated: 2021-11-15
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1466; Calibrated: 2021-11-11
Phantom: Twin-SAM V8.0; Serial: 1934
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) = 2.73 W/kg
SAR(1 g) = 1.68 W/kg
Deviation (1 g) = -3.23%



ELEMENT

DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d119

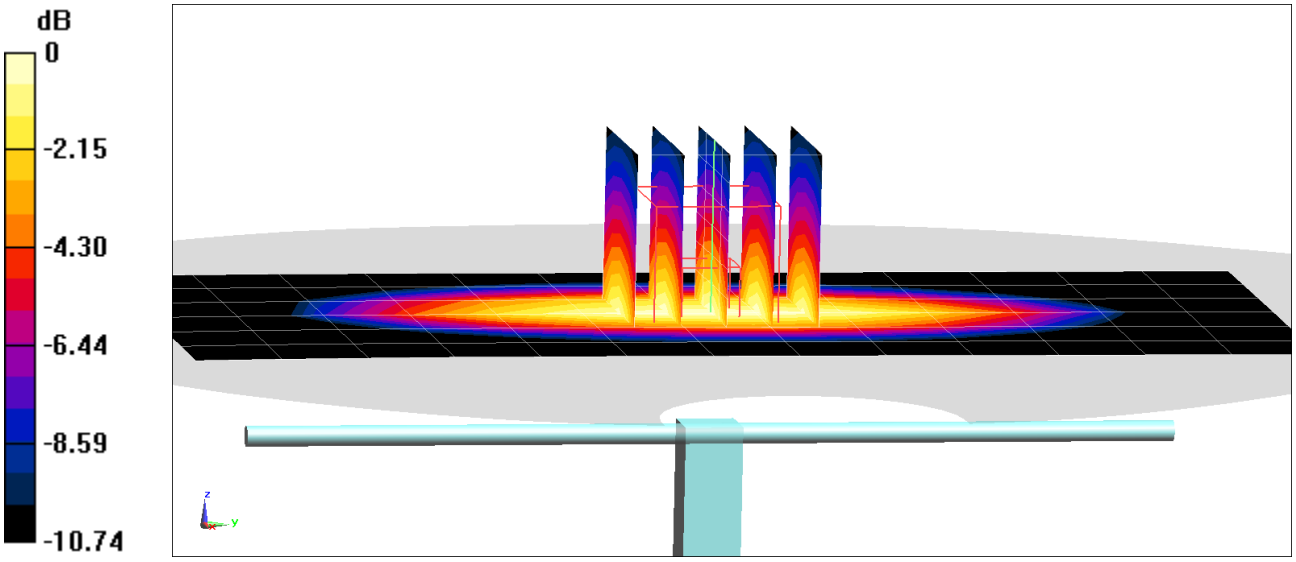
Communication System: UID 0, CW; Frequency: 835 MHz
Medium: 835 Body Medium parameters used:
f = 835 MHz; σ = 1.018 S/m; ε_r = 53.41; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 1.5 cm

Test Date: 06/06/2022; Ambient Temp: 20.7°C; Tissue Temp: 20.6°C

Probe: EX3DV4 - SN7558; ConvF(10.14, 10.14, 10.14) @ 835 MHz; Calibrated: 9/17/2021
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1364; Calibrated: 9/13/2021
Phantom: Twin-SAM V5.0 (30); Type: QD 000 P40 CD; Serial: 1626
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7501)

835 MHz System Verification at 23.0 dBm (200 mW)

Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Peak SAR (extrapolated) = 3.19 W/kg
SAR(1 g) = 2.07 W/kg
Deviation(1 g) = 4.44%



0 dB = 2.79 W/kg = 4.46 dBW/kg

ELEMENT

DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d119

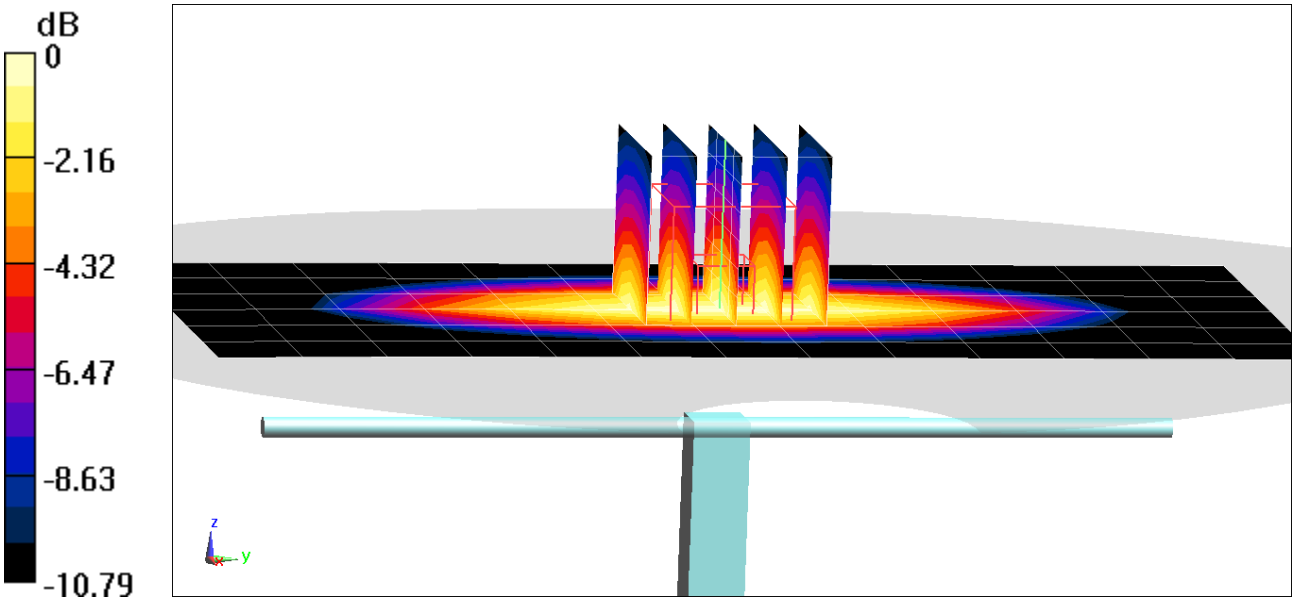
Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1
Medium: 835 Body; Medium parameters used:
f = 835 MHz; σ = 1.017 S/m; ε_r = 53.146; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 1.5 cm

Test Date: 06/08/2022; Ambient Temp: 20.6°C; Tissue Temp: 20.8°C

Probe: EX3DV4 - SN7558; ConvF(10.14, 10.14, 10.14) @ 835 MHz; Calibrated: 2021-09-17
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1364; Calibrated: 2021-09-13
Phantom: Twin-SAM V5.0 (30); Type: QD 000 P40 CD; Serial: 1626
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7501)

835 MHz System Verification at 23.0 dBm (200 mW)

Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Peak SAR (extrapolated) = 3.12 W/kg
SAR(10 g) = 1.31 W/kg
Deviation(10 g) = -0.61%



ELEMENT

DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d119

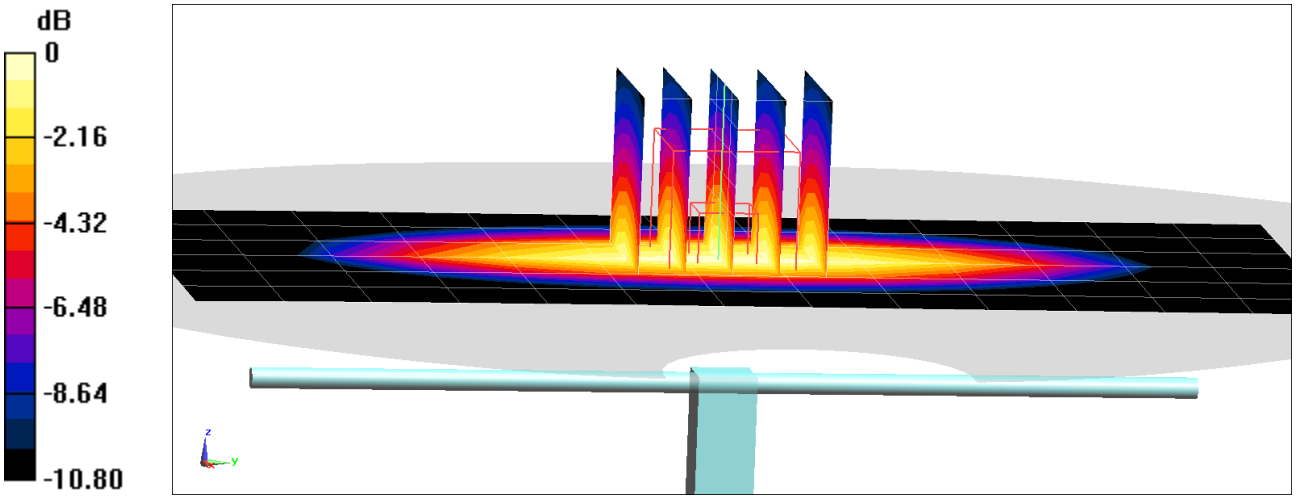
Communication System: UID 0, CW; Frequency: 835 MHz
Medium: 835 Body Medium parameters used:
f = 835 MHz; σ = 1.003 S/m; ε_r = 53.408; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 1.5 cm

Test Date: 06/14/2022; Ambient Temp: 20.6°C; Tissue Temp: 20.6°C

Probe: EX3DV4 - SN7558; ConvF(10.14, 10.14, 10.14) @ 835 MHz; Calibrated: 9/17/2021
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1364; Calibrated: 9/13/2021
Phantom: Twin-SAM V5.0 (30); Type: QD 000 P40 CD; Serial: 1626
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7501)

835 MHz System Verification at 23.0 dBm (200 mW)

Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Peak SAR (extrapolated) = 3.10 W/kg
SAR(10 g) = 1.32 W/kg
Deviation(10 g) = 0.15%



0 dB = 2.72 W/kg = 4.35 dBW/kg

ELEMENT

DUT: Dipole 835.0 MHz; Type: D835V2 - SN4d119

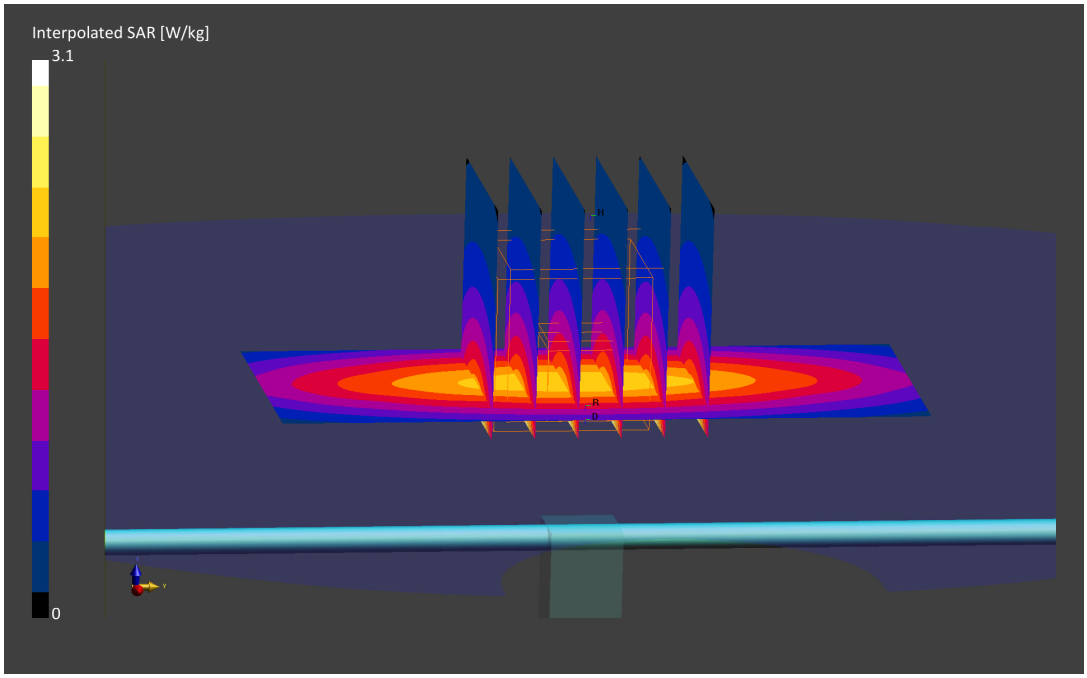
Communication System: UID: 0, CW; Frequency: 835.0 MHz
Medium: 835 Body; Medium parameters used:
f = 835.0 MHz; cond = 0.952 S/m; perm = 53.1; density = 1000 kg/m3
Phantom Section: Flat; Space: 15 mm

Test Date: 06/15/2022; Ambient Temp: 22.8°C; Tissue Temp: 23.0°C

Probe: EX3DV4 - SN7640; ConvF:(10.66,10.66,10.66); Calibrated: 2022-02-24
Sensor-Surface: 1.4mm (All points)
Electronics: DAE4 Sn1645; Calibrated: 2022-02-21
Phantom: Twin-SAM V5.0; Serial: 1868
Measurement SW: DASY Module SAR V16.0.0.116

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) = 1.97 W/kg
Deviation (1 g) = -0.61%



ELEMENT

DUT: Dipole 835.0 MHz; Type: D835V2 - SN4d119

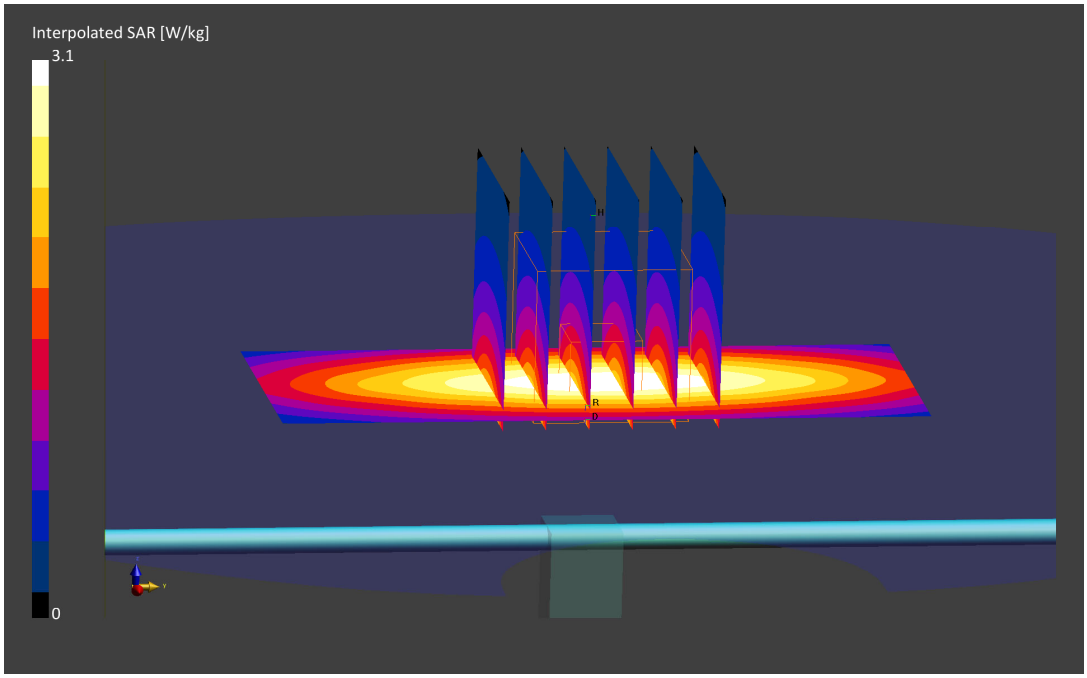
Communication System: UID: 0, CW; Frequency: 835.0 MHz
Medium: 835 Body; Medium parameters used:
f = 835.0 MHz; cond = 0.959 S/m; perm = 53.1; density = 1000 kg/m3
Phantom Section: Flat; Space: 15 mm

Test Date: 06/16/2022; Ambient Temp: 22.6°C; Tissue Temp: 22.4°C

Probe: EX3DV4 - SN7640; ConvF:(10.66,10.66,10.66); Calibrated: 2022-02-24
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1645; Calibrated: 2022-02-21
Phantom: Twin-SAM V5.0; Serial: 1868
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) = 3.10 W/kg
SAR(1 g) = 1.98 W/kg
Deviation (1 g) = -0.10%



ELEMENT

DUT: Dipole 835.0 MHz; Type: D835V2 - SN4d119

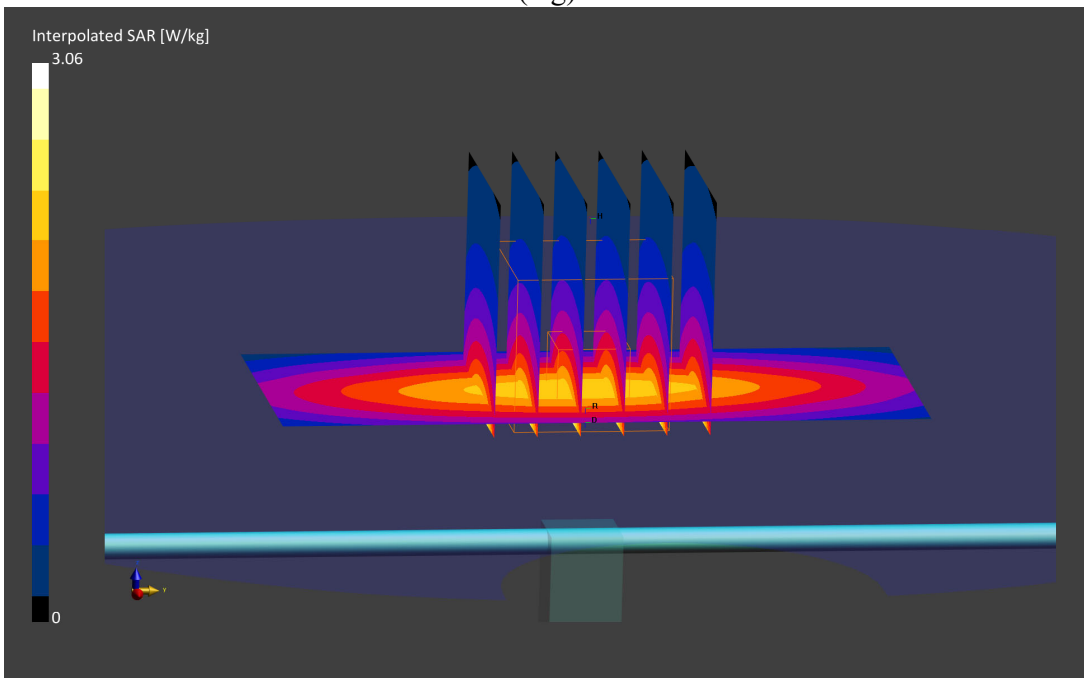
Communication System: UID: 0, CW; Frequency: 835.0 MHz
Medium: 835 Body; Medium parameters used:
f = 835.0 MHz; cond = 1.01 S/m; perm = 52.7; density = 1000 kg/m3
Phantom Section: Flat; Space: 15 mm

Test Date: 06/21/2022; Ambient Temp: 22.4°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7565; ConvF:(9.55,9.55,9.55); Calibrated: 2021-11-15
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1466; Calibrated: 2021-11-11
Phantom: Twin-SAM V8.0; Serial: 1934
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) = 3.06 W/kg
SAR(1 g) = 1.96 W/kg
Deviation (1 g) = -1.11%



ELEMENT

DUT: Dipole 1750.0 MHz; Type: D1750V2 - SN1092

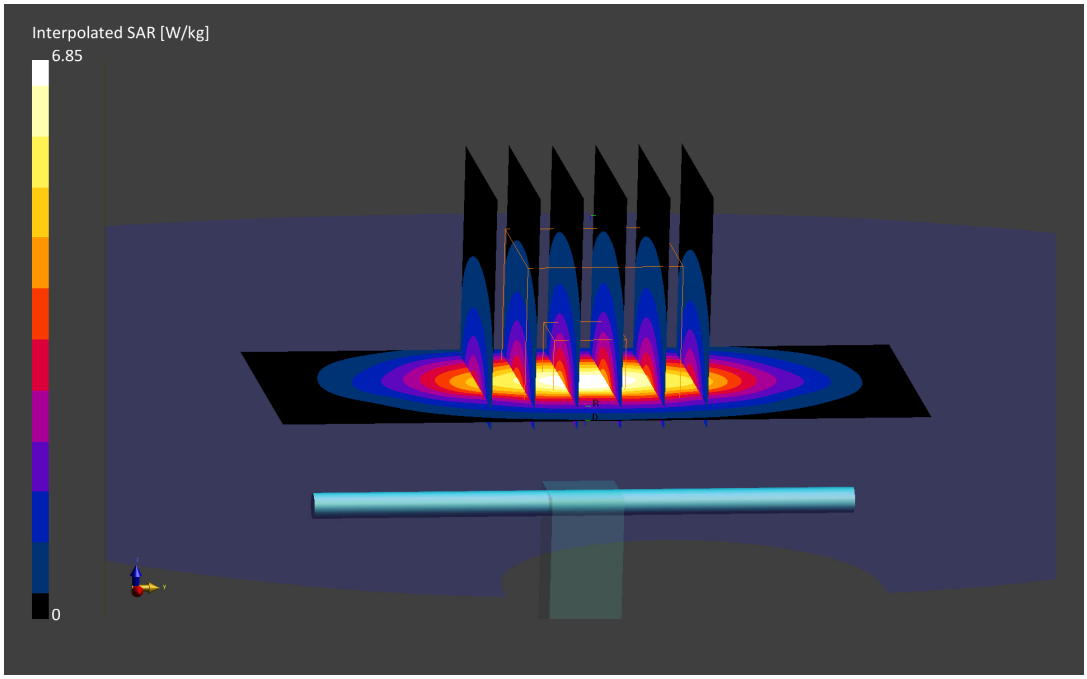
Communication System: UID: 0, CW; Frequency: 1750.0 MHz
Medium: 1750 Body; Medium parameters used:
f = 1750.0 MHz; cond = 1.50 S/m; perm = 51.9; density = 1000 kg/m3
Phantom Section: Flat; Space: 10 mm

Test Date: 07/11/2022; Ambient Temp: 20.3°C; Tissue Temp: 21.4°C

Probe: EX3DV4 - SN7640; ConvF:(9.3,9.3,9.3); Calibrated: 2022-02-24
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1645; Calibrated: 2022-02-21
Phantom: Twin-SAM V5.0; Serial: 1868
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) = 6.85 W/kg
SAR(1 g) = 3.71 W/kg; SAR(10 g) = 1.97 W/kg
Deviation (1 g) = -1.33%; Deviation (10 g) = -1.99%;



ELEMENT

DUT: Dipole 1900.0 MHz; Type: D1900V2 - SN5d141

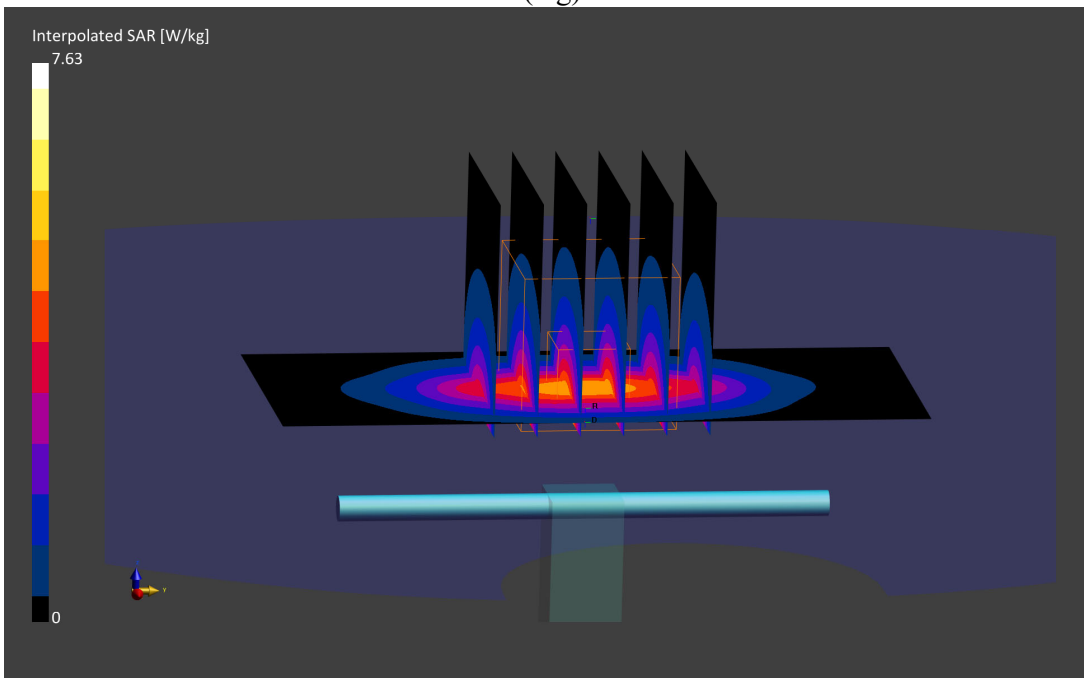
Communication System: UID: 0, CW; Frequency: 1900.0 MHz
Medium: 1900 Body; Medium parameters used:
f = 1900.0 MHz; cond = 1.59 S/m; perm = 51.1; density = 1000 kg/m3
Phantom Section: Flat; Space: 10 mm

Test Date: 06/21/2022; Ambient Temp: 22.4°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7565; ConvF:(7.54,7.54,7.54); Calibrated: 2021-11-15
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1466; Calibrated: 2021-11-11
Phantom: Twin-SAM V8.0; Serial: 1934
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) = 7.63 W/kg
SAR(1 g) = 4.10 W/kg
Deviation (1 g) = 3.02%



ELEMENT

DUT: Dipole 1900.0 MHz; Type: D1900V2 - SN5d141

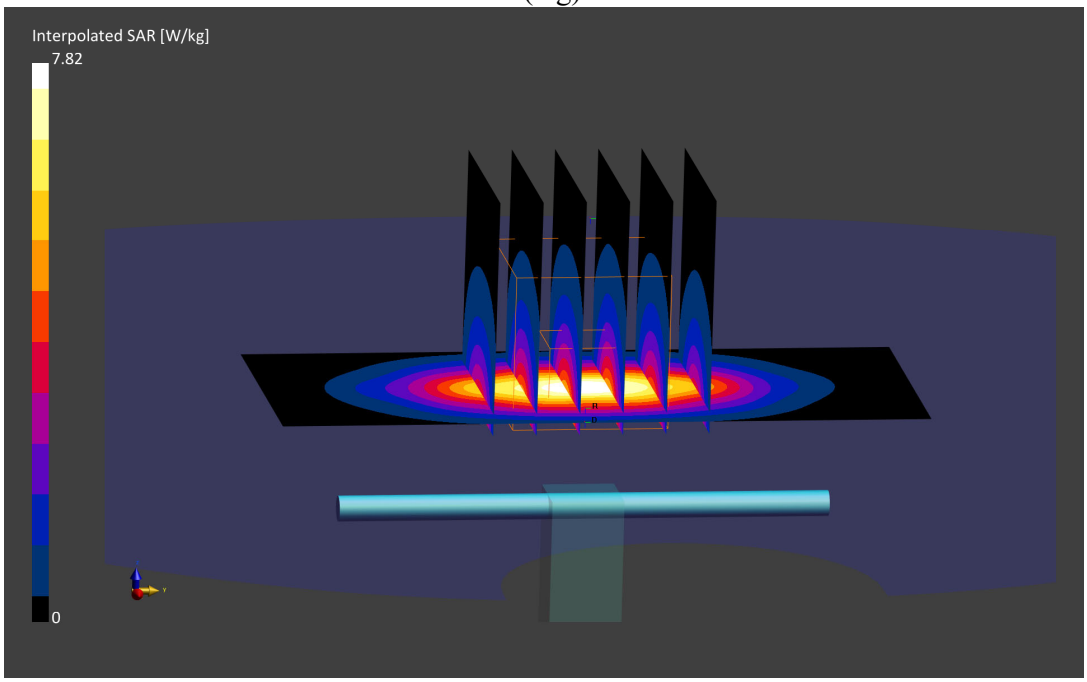
Communication System: UID: 0, CW; Frequency: 1900.0 MHz
Medium: 1900 Body; Medium parameters used:
f = 1900.0 MHz; cond = 1.55 S/m; perm = 51.8; density = 1000 kg/m3
Phantom Section: Flat; Space: 10 mm

Test Date: 07/15/2022; Ambient Temp: 21.8°C; Tissue Temp: 20.4°C

Probe: EX3DV4 - SN7565; ConvF:(7.54,7.54,7.54); Calibrated: 2021-11-15
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1466; Calibrated: 2021-11-11
Phantom: Twin-SAM V8.0; Serial: 1934
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) = 7.82 W/kg
SAR(1 g) = 4.20 W/kg
Deviation (1 g) = 5.53%



ELEMENT

DUT: Dipole 1900.0 MHz; Type: D1900V2 - SN5d141

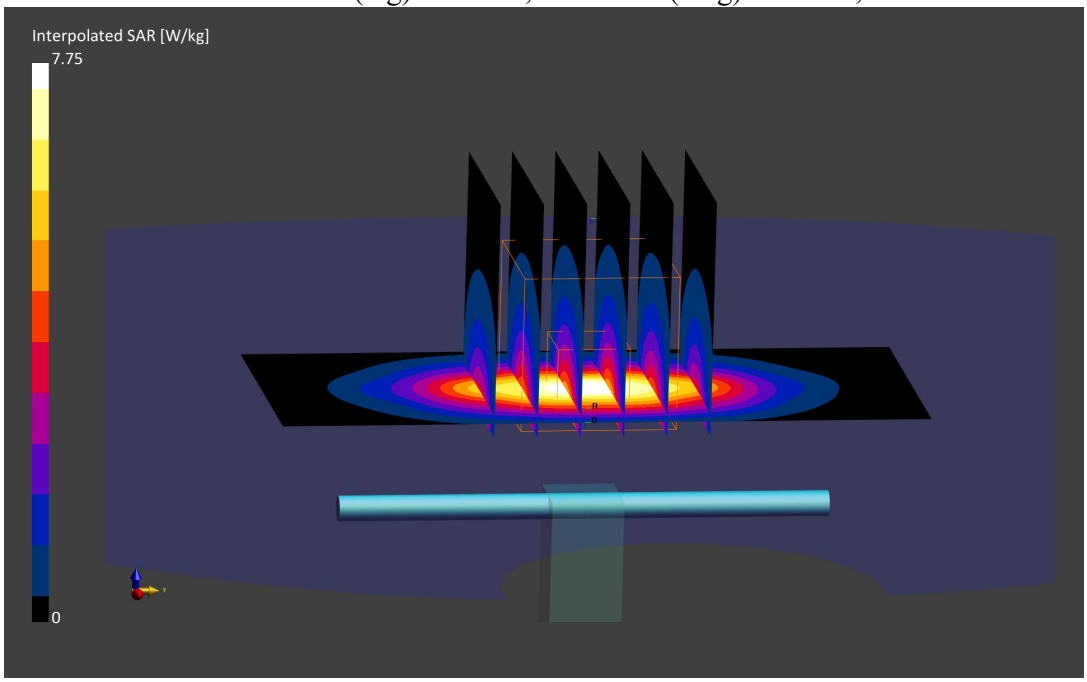
Communication System: UID: 0, CW; Frequency: 1900.0 MHz
Medium: 1900 Body; Medium parameters used:
f = 1900.0 MHz; cond = 1.54 S/m; perm = 51.0; density = 1000 kg/m3
Phantom Section: Flat; Space: 10 mm

Test Date: 07/18/2022; Ambient Temp: 21.9°C; Tissue Temp: 21.1°C

Probe: EX3DV4 - SN7565; ConvF:(7.54,7.54,7.54); Calibrated: 2021-11-15
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1466; Calibrated: 2021-11-11
Phantom: Twin-SAM V8.0; Serial: 1934
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) = 7.75 W/kg
SAR(1 g) = 4.17 W/kg; SAR(10 g) = 2.17 W/kg
Deviation (1 g) = 4.77%; Deviation (10 g) = 5.34%;



ELEMENT

DUT: Dipole 2450.0 MHz; Type: D2450V2 - SN981

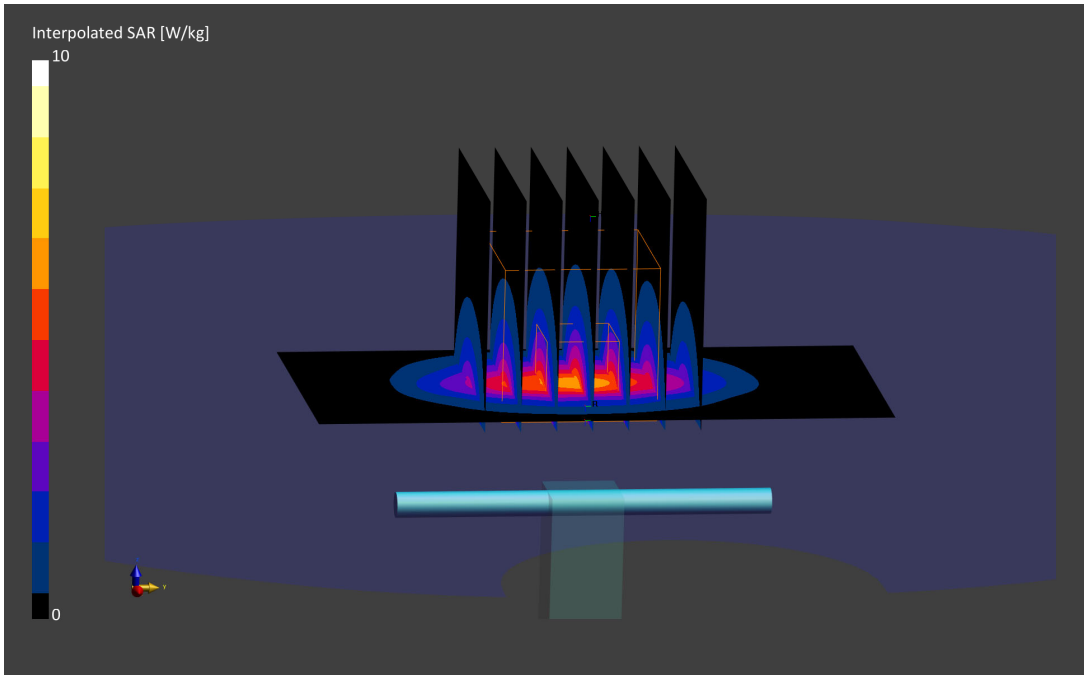
Communication System: UID: 0, CW; Frequency: 2450.0 MHz
Medium: 2450 Body; Medium parameters used:
f = 2450.0 MHz; cond = 1.91 S/m; perm = 50.9; density = 1000 kg/m3
Phantom Section: Flat; Space: 10 mm

Test Date: 06/28/2022; Ambient Temp: 21.3°C; Tissue Temp: 24.0°C

Probe: EX3DV4 - SN7552; ConvF:(7.44,7.44,7.44); Calibrated: 2021-09-20
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1680; Calibrated: 2021-08-04
Phantom: Twin-SAM V8.0; Serial: 2065
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) = 10.0 W/kg
SAR(1 g) = 4.86 W/kg
Deviation (1 g) = -3.38%



ELEMENT

DUT: Dipole 2450.0 MHz; Type: D2450V2 - SN882

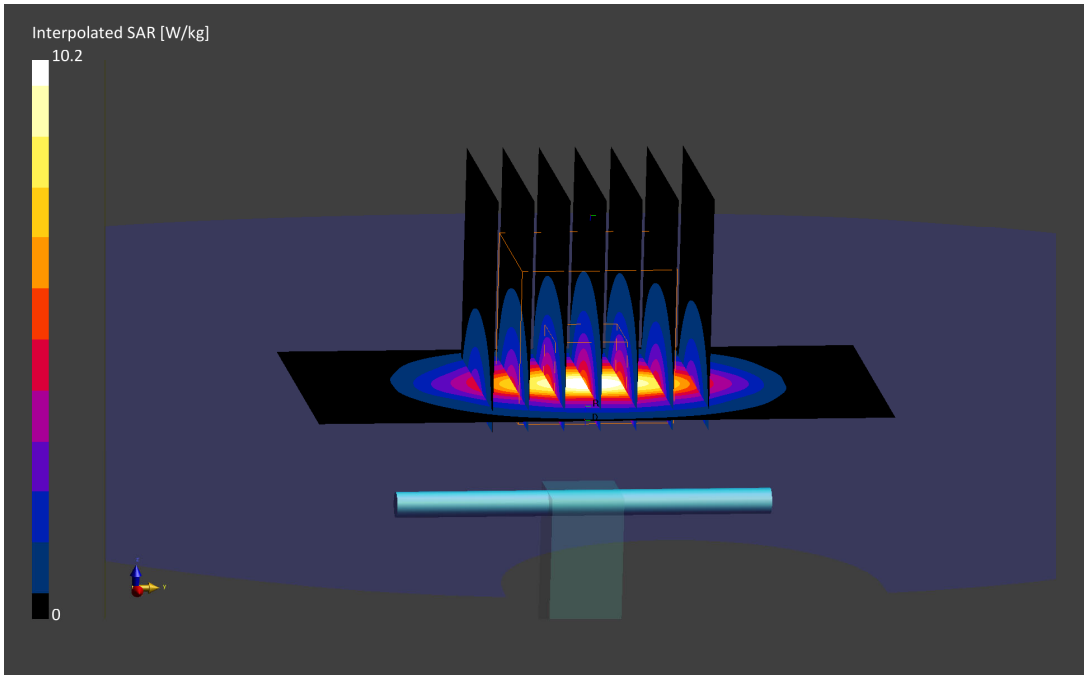
Communication System: UID: 0, CW; Frequency: 2450.0 MHz
Medium: 2450 Body; Medium parameters used:
f = 2450.0 MHz; cond = 2.02 S/m; perm = 50.3; density = 1000 kg/m3
Phantom Section: Flat; Space: 10 mm

Test Date: 06/28/2022; Ambient Temp: 20.2°C; Tissue Temp: 20.4°C

Probe: EX3DV4 - SN7640; ConvF:(8.86,8.86,8.86); Calibrated: 2022-02-24
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1645; Calibrated: 2022-02-21
Phantom: Twin-SAM V5.0; Serial: 1868
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) = 10.2 W/kg
SAR(1 g) = 4.88 W/kg; SAR(10 g) = 2.24 W/kg
Deviation (1 g) = -4.31%; Deviation (10 g) = -6.67%;



ELEMENT

DUT: Dipole 2450.0 MHz; Type: D2450V2 - SN882

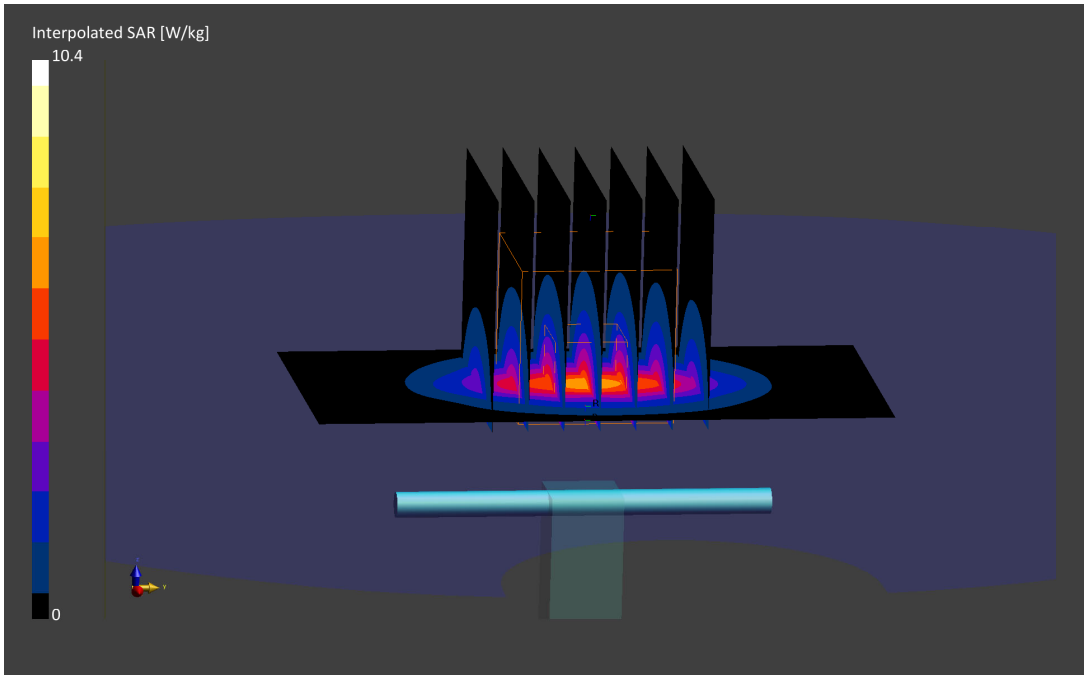
Communication System: UID: 0, CW; Frequency: 2450.0 MHz
Medium: 2450 Body; Medium parameters used:
f = 2450.0 MHz; cond = 2.03 S/m; perm = 51.5; density = 1000 kg/m3
Phantom Section: Flat; Space: 10 mm

Test Date: 06/30/2022; Ambient Temp: 21.9°C; Tissue Temp: 21.7°C

Probe: EX3DV4 - SN7640; ConvF:(8.86,8.86,8.86); Calibrated: 2022-02-24
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1645; Calibrated: 2022-02-21
Phantom: Twin-SAM V5.0; Serial: 1868
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) = 10.4 W/kg
SAR(1 g) = 4.96 W/kg; SAR(10 g) = 2.28 W/kg
Deviation (1 g) = -2.75%; Deviation (10 g) = -5.00%;



ELEMENT

DUT: Dipole 2450.0 MHz; Type: D2450V2 - SN719

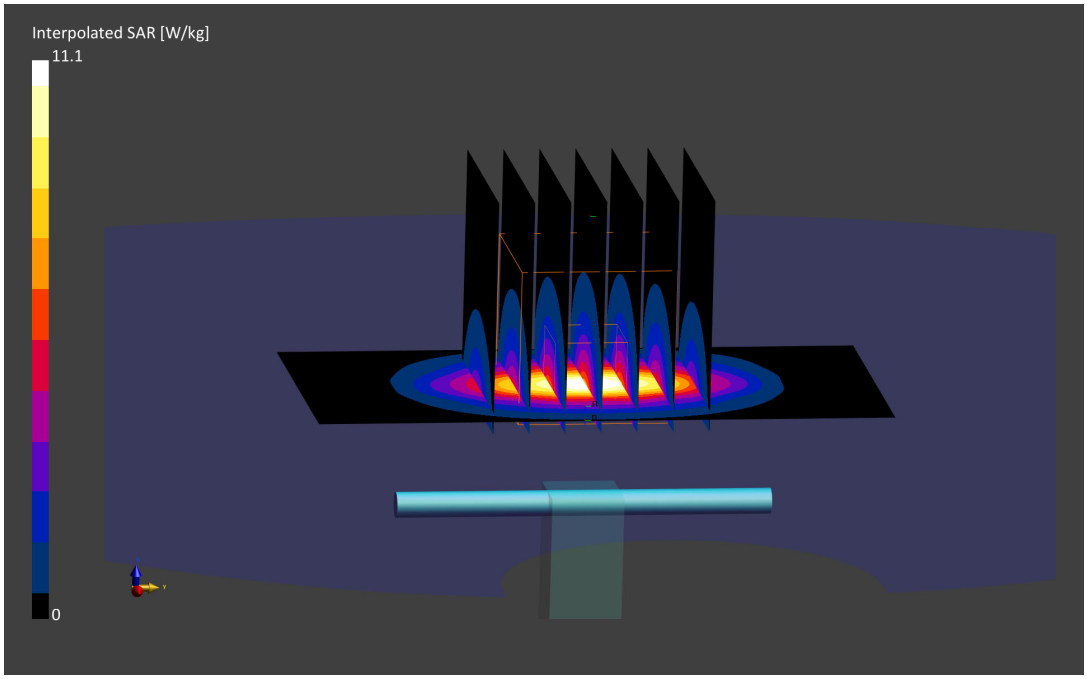
Communication System: UID: 0, CW; Frequency: 2450.0 MHz
Medium: 2450 Body; Medium parameters used:
f = 2450.0 MHz; cond = 1.99 S/m; perm = 50.8; density = 1000 kg/m3
Phantom Section: Flat; Space: 10 mm

Test Date: 07/03/2022; Ambient Temp: 21.8°C; Tissue Temp: 22.2°C

Probe: EX3DV4 - SN7552; ConvF:(7.44,7.44,7.44); Calibrated: 2021-09-20
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1680; Calibrated: 2021-08-04
Phantom: Twin-SAM V8.0; Serial: 2065
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) = 11.1 W/kg
SAR(1 g) = 5.23 W/kg; SAR(10 g) = 2.40 W/kg
Deviation (1 g) = 0.58%; Deviation (10 g) = -2.83%;



ELEMENT

DUT: Dipole 2450.0 MHz; Type: D2450V2 - SN797

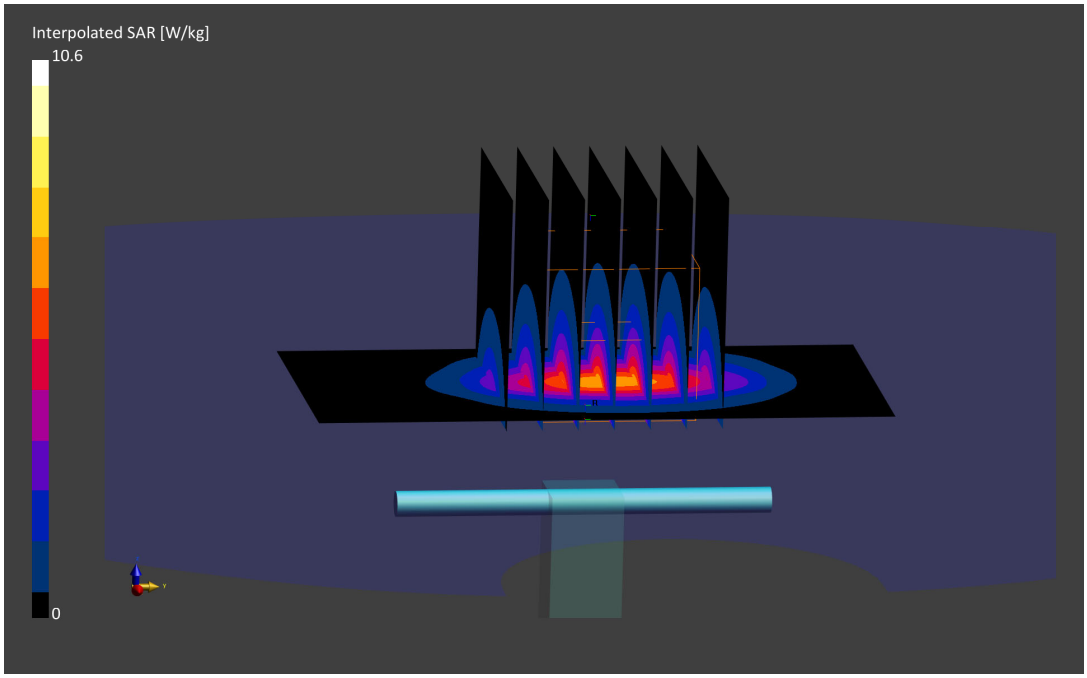
Communication System: UID: 0, CW; Frequency: 2450.0 MHz
Medium: 2450 Body; Medium parameters used:
f = 2450.0 MHz; cond = 1.99 S/m; perm = 50.6; density = 1000 kg/m3
Phantom Section: Flat; Space: 10 mm

Test Date: 07/26/2022; Ambient Temp: 21.5°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN7538; ConvF:(7.43,7.43,7.43); Calibrated: 2021-11-16
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1323; Calibrated: 2021-11-10
Phantom: Twin-SAM V8.0; Serial: 2056
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) = 10.6 W/kg
SAR(1 g) = 5.25 W/kg
Deviation (1 g) = 6.28%



ELEMENT

DUT: Dipole 2450.0 MHz; Type: D2450V2 - SN719

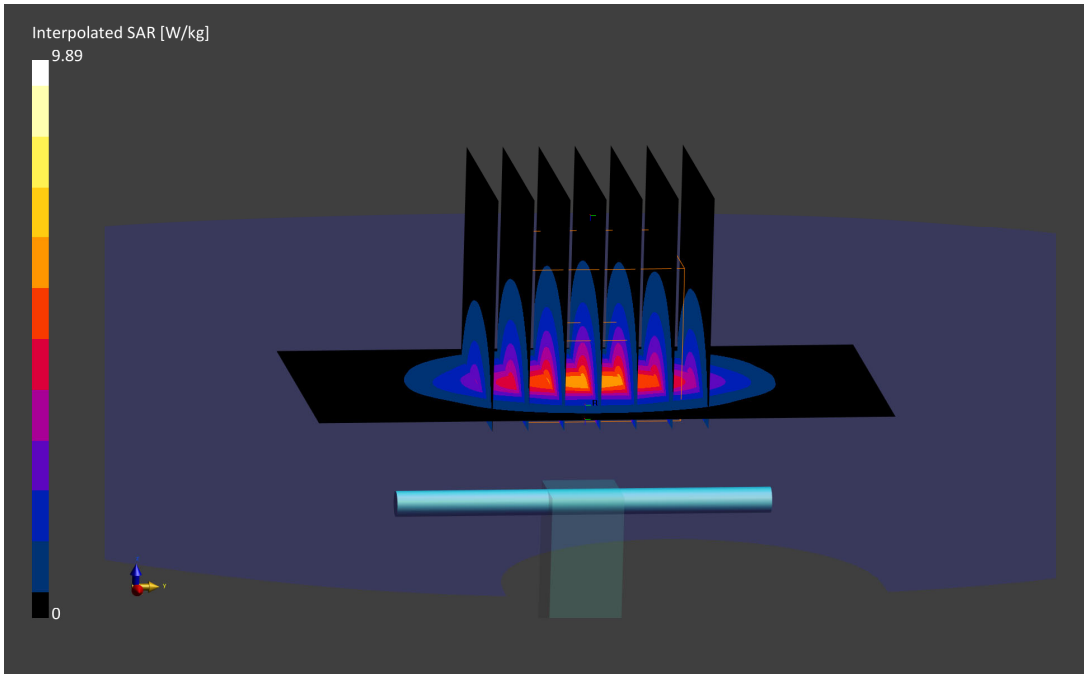
Communication System: UID: 0, CW; Frequency: 2450.0 MHz
Medium: 2450 Body; Medium parameters used:
f = 2450.0 MHz; cond = 1.91 S/m; perm = 50.8; density = 1000 kg/m3
Phantom Section: Flat; Space: 10 mm

Test Date: 07/27/2022; Ambient Temp: 22.9°C; Tissue Temp: 24.5°C

Probe: EX3DV4 - SN7417; ConvF:(7.57,7.57,7.57); Calibrated: 2022-02-22
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn665; Calibrated: 2022-02-22
Phantom: Twin-SAM V8.0; Serial: 2060
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) = 9.89 W/kg
SAR(1 g) = 4.93 W/kg; SAR(10 g) = 2.32 W/kg
Deviation (1 g) = -5.19%; Deviation (10 g) = -6.07%;



ELEMENT

DUT: Dipole 2600.0 MHz; Type: D2600V2 - SN1126

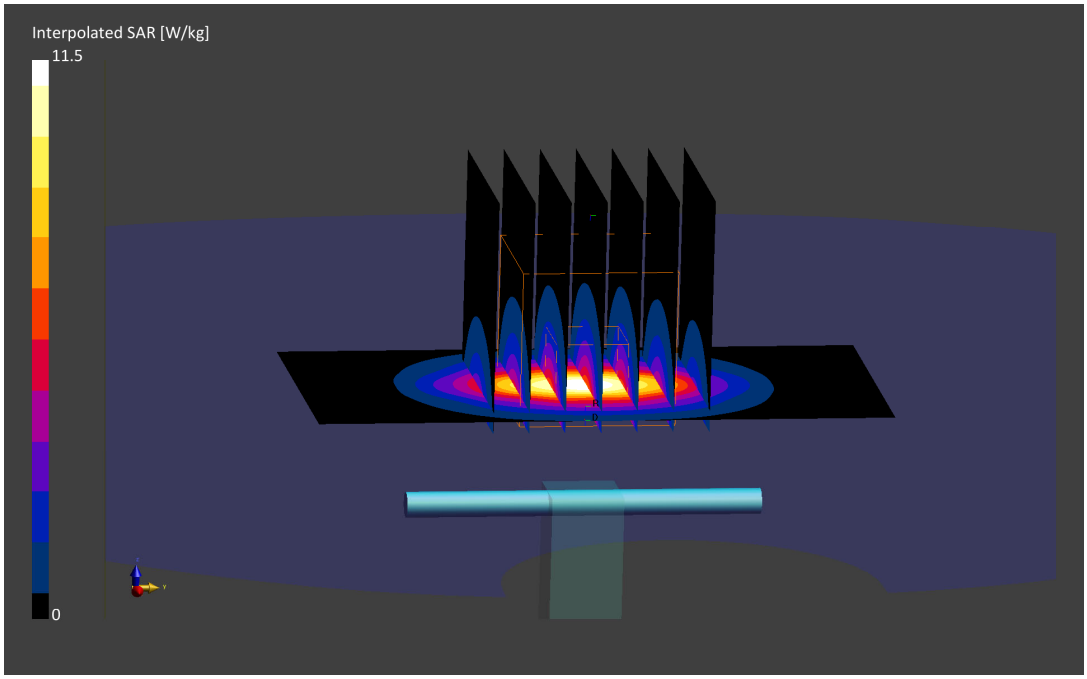
Communication System: UID: 0, CW; Frequency: 2600.0 MHz
Medium: 2450 Body; Medium parameters used:
f = 2600.0 MHz; cond = 2.16 S/m; perm = 50.1; density = 1000 kg/m3
Phantom Section: Flat; Space: 10 mm

Test Date: 06/28/2022; Ambient Temp: 20.2°C; Tissue Temp: 20.4°C

Probe: EX3DV4 - SN7640; ConvF:(8.6,8.6,8.6); Calibrated: 2022-02-24
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1645; Calibrated: 2022-02-21
Phantom: Twin-SAM V5.0; Serial: 1868
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) = 11.5 W/kg
SAR(1 g) = 5.17 W/kg; SAR(10 g) = 2.29 W/kg
Deviation (1 g) = -6.34%; Deviation (10 g) = -7.29%;



ELEMENT

DUT: Dipole 2600.0 MHz; Type: D2600V2 - SN1126

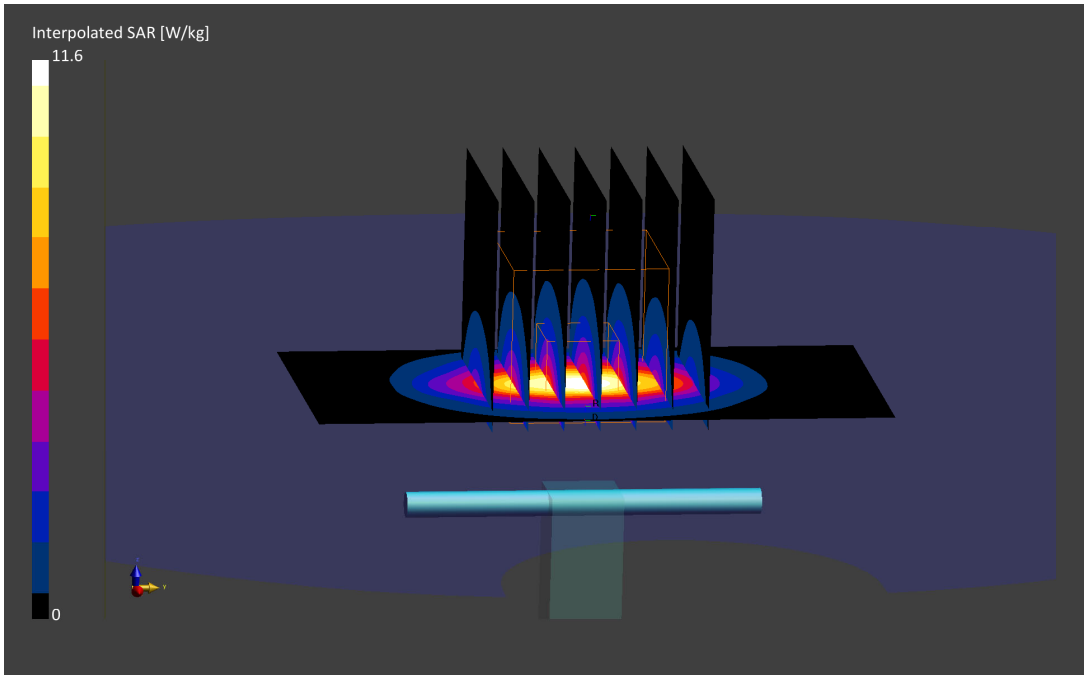
Communication System: UID: 0, CW; Frequency: 2600.0 MHz
Medium: 2450 Body; Medium parameters used:
f = 2600.0 MHz; cond = 2.16 S/m; perm = 51.2; density = 1000 kg/m3
Phantom Section: Flat; Space: 10 mm

Test Date: 06/30/2022; Ambient Temp: 21.9°C; Tissue Temp: 21.7°C

Probe: EX3DV4 - SN7640; ConvF:(8.6,8.6,8.6); Calibrated: 2022-02-24
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1645; Calibrated: 2022-02-21
Phantom: Twin-SAM V5.0; Serial: 1868
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) = 11.6 W/kg
SAR(1 g) = 5.26 W/kg; SAR(10 g) = 2.34 W/kg
Deviation (1 g) = -4.71%; Deviation (10 g) = -5.26%;



ELEMENT

DUT: Dipole 5250.0 MHz; Type: D5GHzV2 - SN1057

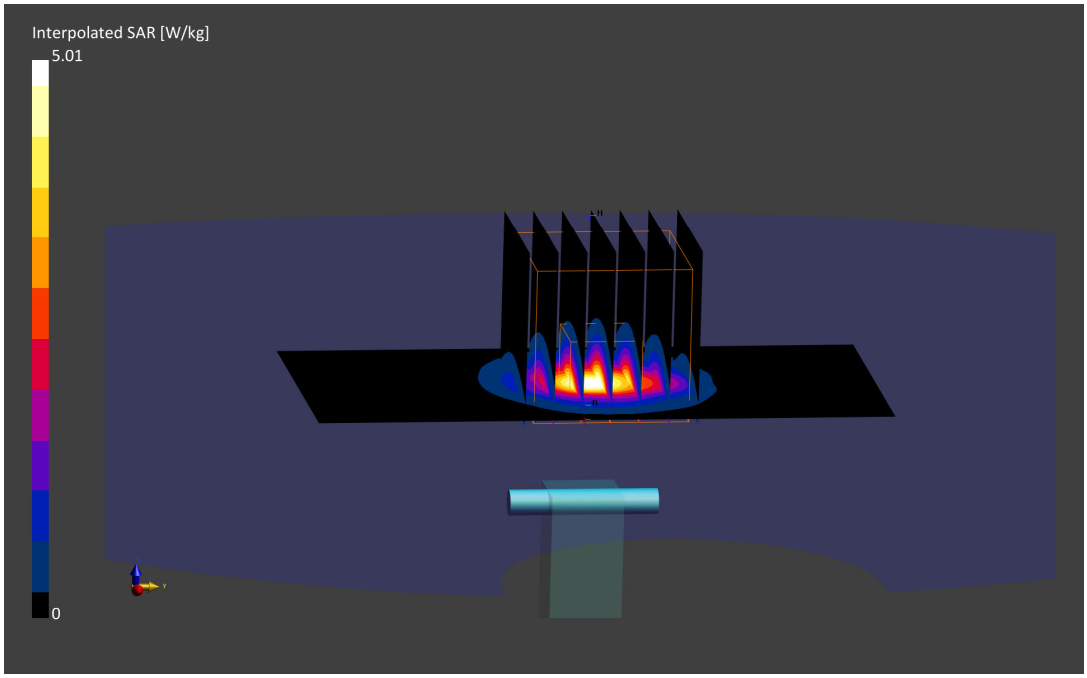
Communication System: UID: 0, CW; Frequency: 5250.0 MHz
Medium: 5200-5800 Body; Medium parameters used:
f = 5250.0 MHz; cond = 5.41 S/m; perm = 48.5; density = 1000 kg/m3
Phantom Section: Flat; Space: 10 mm

Test Date: 07/05/2022; Ambient Temp: 22.1°C; Tissue Temp: 20.8°C

Probe: EX3DV4 - SN7417; ConvF:(4.91,4.91,4.91); Calibrated: 2022-02-22
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn665; Calibrated: 2022-02-22
Phantom: Twin-SAM V8.0; Serial: 2060
Measurement SW: DASY Module SAR V16.0.2.83

5250 MHz System Verification at 17 dBm (50 mW)

Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm
Zoom Scan (22.0 x 22.0 x 22.0): Measurement grid: dx=4.0 mm, dy=4.0 mm, dz=1.4 mm; Graded Ratio: 1.4
Peak SAR (extrapolated) = 12.5 W/kg
SAR(1 g) = 3.38 W/kg; SAR(10 g) = 0.958 W/kg
Deviation (1 g) = -8.89%; Deviation (10 g) = -6.99%



ELEMENT

DUT: Dipole 5250.0 MHz; Type: D5GHzV2 - SN1057

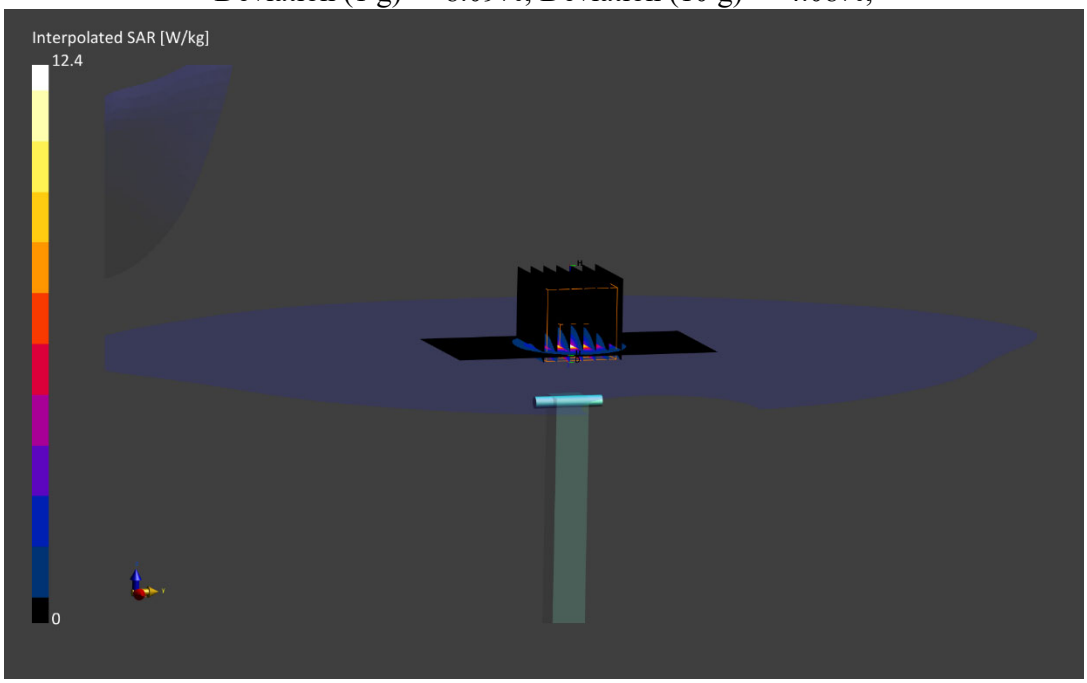
Communication System: UID: 0, CW; Frequency: 5250.0 MHz
Medium: 5200-5800 Body; Medium parameters used:
f = 5250.0 MHz; cond = 5.24 S/m; perm = 47.3; density = 1000 kg/m3
Phantom Section: Flat; Space: 10 mm

Test Date: 07/18/2022; Ambient Temp: 23.6°C; Tissue Temp: 21.6°C

Probe: EX3DV4 - SN7417; ConvF:(4.91,4.91,4.91); Calibrated: 2022-02-22
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn665; Calibrated: 2022-02-22
Phantom: Twin-SAM V8.0; Serial: 2060
Measurement SW: DASY Module SAR V16.0.2.83

5250 MHz System Verification at 17 dBm (50 mW)

Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm
Zoom Scan (22.0 x 22.0 x 22.0): Measurement grid: dx=4.0 mm, dy=4.0 mm, dz=1.4 mm; Graded Ratio: 1.4
Peak SAR (extrapolated) = 12.4 W/kg
SAR(1 g) = 3.41 W/kg; SAR(10 g) = 0.988 W/kg
Deviation (1 g) = -8.09%; Deviation (10 g) = -4.08%;



ELEMENT

DUT: Dipole 5600.0 MHz; Type: D5GHzV2 - SN1057

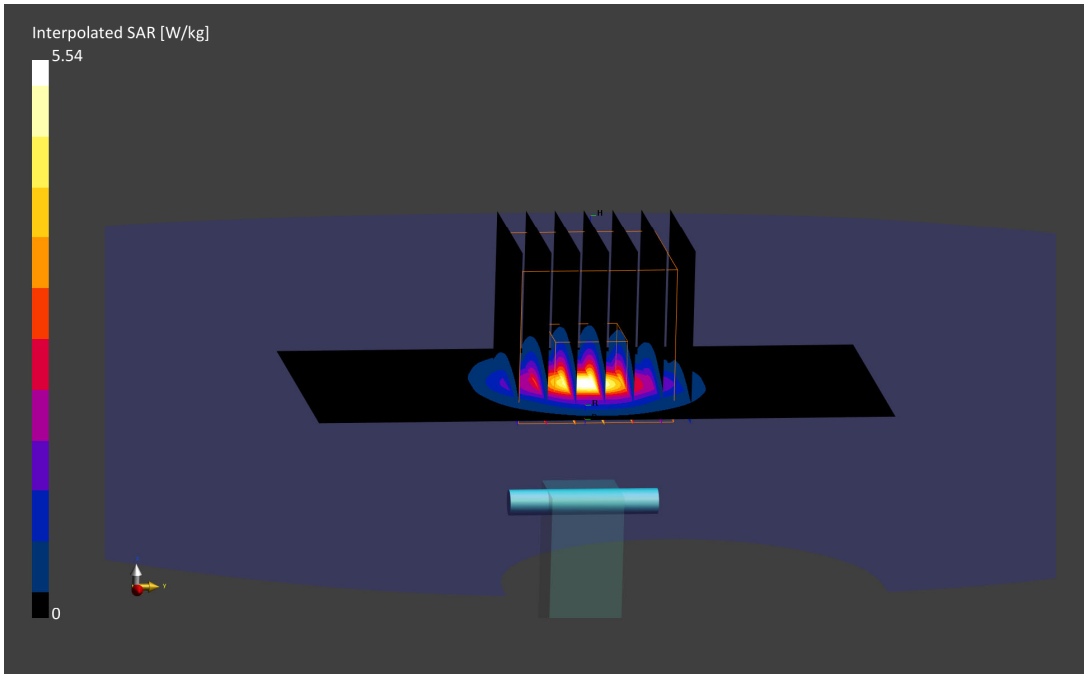
Communication System: UID: 0, CW; Frequency: 5600.0 MHz
Medium: 5200-5800 Body; Medium parameters used:
f = 5600.0 MHz; cond = 5.93 S/m; perm = 47.8; density = 1000 kg/m3
Phantom Section: Flat; Space: 10 mm

Test Date: 07/05/2022; Ambient Temp: 22.1°C; Tissue Temp: 20.8°C

Probe: EX3DV4 - SN7417; ConvF:(4.35,4.35,4.35); Calibrated: 2022-02-22
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn665; Calibrated: 2022-02-22
Phantom: Twin-SAM V8.0; Serial: 2060
Measurement SW: DASY Module SAR V16.0.2.83

5600 MHz System Verification at 17 dBm (50 mW)

Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm
Zoom Scan (22.0 x 22.0 x 22.0): Measurement grid: dx=4.0 mm, dy=4.0 mm, dz=1.4 mm; Graded Ratio: 1.4
Peak SAR (extrapolated) = 14.7 W/kg
SAR(1 g) = 3.64 W/kg; SAR(10 g) = 1.02 W/kg
Deviation (1 g) = -5.45%; Deviation (10 g) = -3.77%



ELEMENT

DUT: Dipole 5600.0 MHz; Type: D5GHzV2 - SN1057

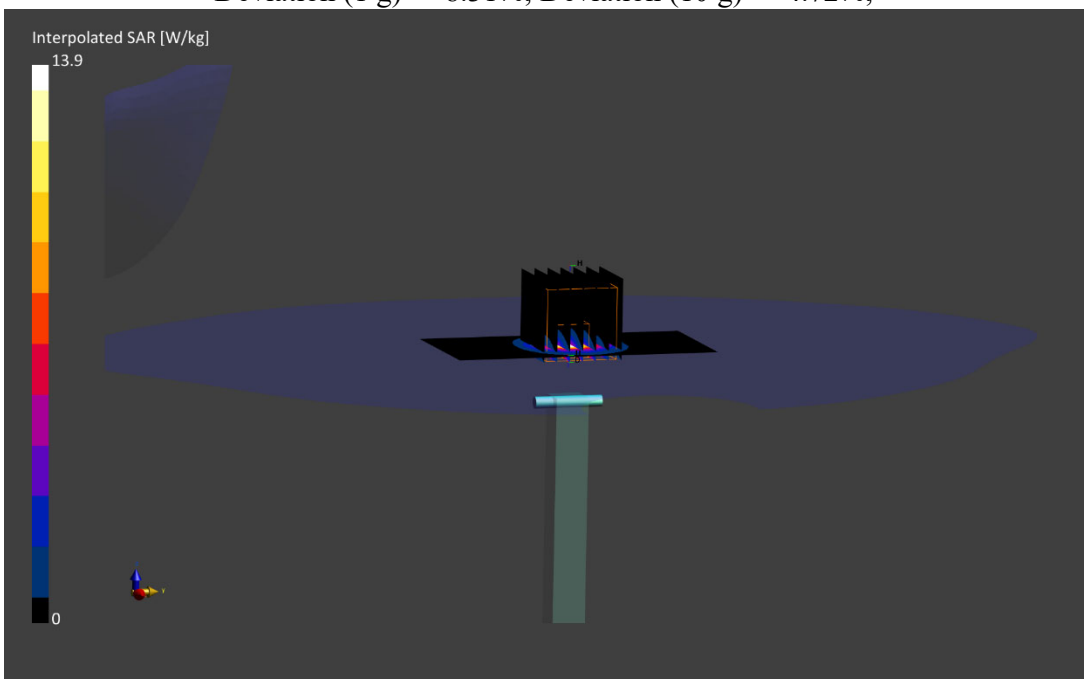
Communication System: UID: 0, CW; Frequency: 5600.0 MHz
Medium: 5200-5800 Body; Medium parameters used:
f = 5600.0 MHz; cond = 5.72 S/m; perm = 46.6; density = 1000 kg/m3
Phantom Section: Flat; Space: 10 mm

Test Date: 07/18/2022; Ambient Temp: 23.6°C; Tissue Temp: 21.6°C

Probe: EX3DV4 - SN7417; ConvF:(4.35,4.35,4.35); Calibrated: 2022-02-22
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn665; Calibrated: 2022-02-22
Phantom: Twin-SAM V8.0; Serial: 2060
Measurement SW: DASY Module SAR V16.0.2.83

5600 MHz System Verification at 17 dBm (50 mW)

Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm
Zoom Scan (22.0 x 22.0 x 22.0): Measurement grid: dx=4.0 mm, dy=4.0 mm, dz=1.4 mm; Graded Ratio: 1.4
Peak SAR (extrapolated) = 13.9 W/kg
SAR(1 g) = 3.53 W/kg; SAR(10 g) = 1.01 W/kg
Deviation (1 g) = -8.31%; Deviation (10 g) = -4.72%;



ELEMENT

DUT: Dipole 5750.0 MHz; Type: D5GHzV2 - SN1057

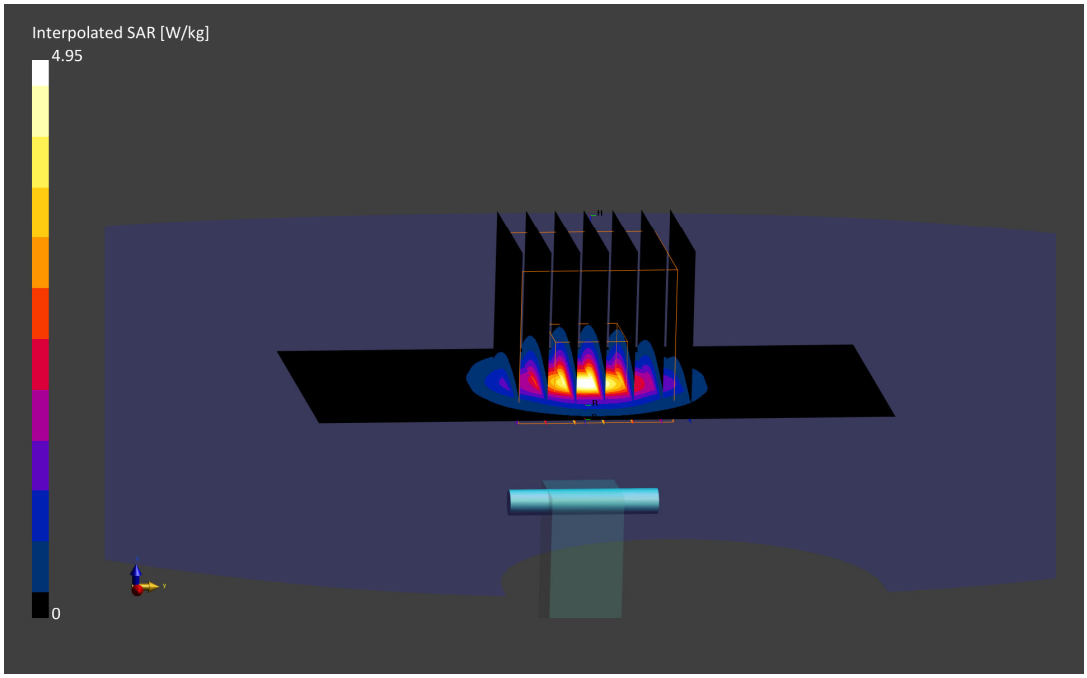
Communication System: UID: 0, CW; Frequency: 5750.0 MHz
Medium: 5200-5800 Body; Medium parameters used:
f = 5750.0 MHz; cond = 6.16 S/m; perm = 47.5; density = 1000 kg/m3
Phantom Section: Flat; Space: 10 mm

Test Date: 07/05/2022; Ambient Temp: 22.1°C; Tissue Temp: 20.8°C

Probe: EX3DV4 - SN7417; ConvF:(4.43,4.43,4.43); Calibrated: 2022-02-22
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn665; Calibrated: 2022-02-22
Phantom: Twin-SAM V8.0; Serial: 2060
Measurement SW: DASY Module SAR V16.0.2.83

5750 MHz System Verification at 17 dBm (50 mW)

Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm
Zoom Scan (22.0 x 22.0 x 22.0): Measurement grid: dx=4.0 mm, dy=4.0 mm, dz=1.4 mm; Graded Ratio: 1.4
Peak SAR (extrapolated) = 14.3 W/kg
SAR(1 g) = 3.39 W/kg; SAR(10 g) = 0.958 W/kg
Deviation (1 g) = -9.48%; Deviation (10 g) = -7.44%



ELEMENT

DUT: Dipole 5750.0 MHz; Type: D5GHzV2 - SN1057

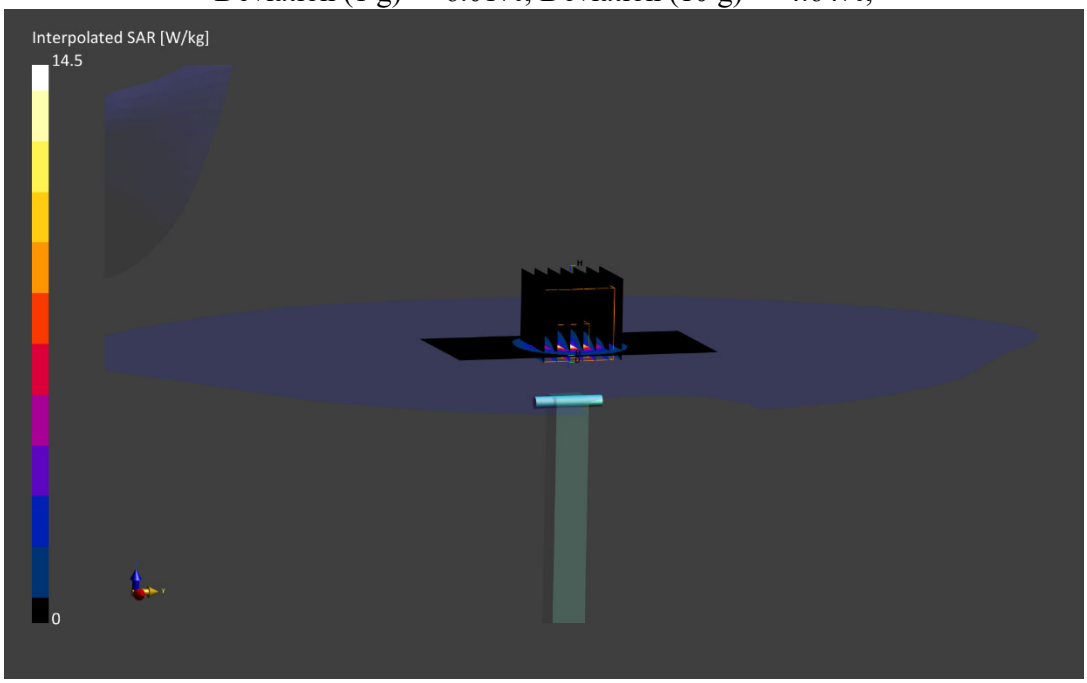
Communication System: UID: 0, CW; Frequency: 5750.0 MHz
Medium: 5200-5800 Body; Medium parameters used:
f = 5750.0 MHz; cond = 5.93 S/m; perm = 46.3; density = 1000 kg/m3
Phantom Section: Flat; Space: 10 mm

Test Date: 07/18/2022; Ambient Temp: 23.6°C; Tissue Temp: 21.6°C

Probe: EX3DV4 - SN7417; ConvF:(4.43,4.43,4.43); Calibrated: 2022-02-22
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn665; Calibrated: 2022-02-22
Phantom: Twin-SAM V8.0; Serial: 2060
Measurement SW: DASY Module SAR V16.0.2.83

5750 MHz System Verification at 17 dBm (50 mW)

Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm
Zoom Scan (22.0 x 22.0 x 22.0): Measurement grid: dx=4.0 mm, dy=4.0 mm, dz=1.4 mm; Graded Ratio: 1.4
Peak SAR (extrapolated) = 14.5 W/kg
SAR(1 g) = 3.52 W/kg; SAR(10 g) = 0.987 W/kg
Deviation (1 g) = -6.01%; Deviation (10 g) = -4.64%;



ELEMENT

DUT: Dipole 5800.0 MHz; Type: D5GHzV2 - SN1057

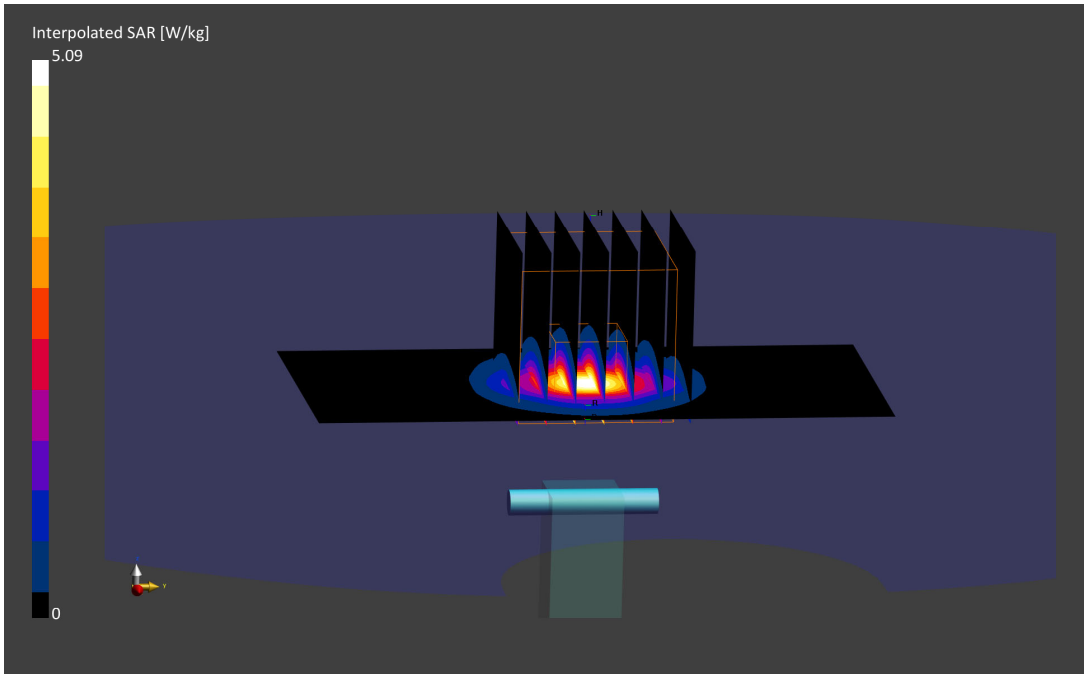
Communication System: UID: 0, CW; Frequency: 5800.0 MHz
Medium: 5200-5800 Body; Medium parameters used:
f = 5800.0 MHz; cond = 6.24 S/m; perm = 47.4; density = 1000 kg/m3
Phantom Section: Flat; Space: 10 mm

Test Date: 07/05/2022; Ambient Temp: 22.1°C; Tissue Temp: 20.8°C

Probe: EX3DV4 - SN7417; ConvF:(4.43,4.43,4.43); Calibrated: 2022-02-22
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn665; Calibrated: 2022-02-22
Phantom: Twin-SAM V8.0; Serial: 2060
Measurement SW: DASY Module SAR V16.0.2.83

5800 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) = 15.0 W/kg
SAR(1 g) = 3.52 W/kg; SAR(10 g) = 0.992 W/kg
Deviation (1 g) = -5.88%; Deviation (10 g) = -3.22%



ELEMENT

DUT: Dipole 5800.0 MHz; Type: D5GHzV2 - SN1057

Communication System: UID: 0, CW; Frequency: 5800.0 MHz
Medium: 5200-5800 Body; Medium parameters used:
f = 5800.0 MHz; cond = 6.00 S/m; perm = 46.2; density = 1000 kg/m3
Phantom Section: Flat; Space: 10 mm

Test Date: 07/18/2022; Ambient Temp: 23.6°C; Tissue Temp: 21.6°C

Probe: EX3DV4 - SN7417; ConvF:(4.43,4.43,4.43); Calibrated: 2022-02-22
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn665; Calibrated: 2022-02-22
Phantom: Twin-SAM V8.0; Serial: 2060
Measurement SW: DASY Module SAR V16.0.2.83

5800 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) = 15.0 W/kg
SAR(1 g) = 3.62 W/kg; SAR(10 g) = 1.01 W/kg
Deviation (1 g) = -3.21%; Deviation (10 g) = -1.46%;