

APPENDIX B: SYSTEM VERIFICATION

ELEMENT MATERIALS TECHNOLOGY

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; $\text{cond} = 0.724$ S/m; $\text{perm} = 53.5$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 0 mm

Test Date: 04/18/2022; Ambient Temp: 22.2°C; Tissue Temp: 21.6°C

Probe: EX3DV4 - SN3914; ConvF:(18.18,18.18,18.18); Calibrated: 2021-05-18

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

Electronics: DAE4 Sn728; Calibrated: 2021-05-11

Phantom: ELI V4.0; Serial: 1226

Measurement SW: DASY Module SAR V16.0.2.136

13.0 MHz System Verification at 30.0 dBm (1000 mW)

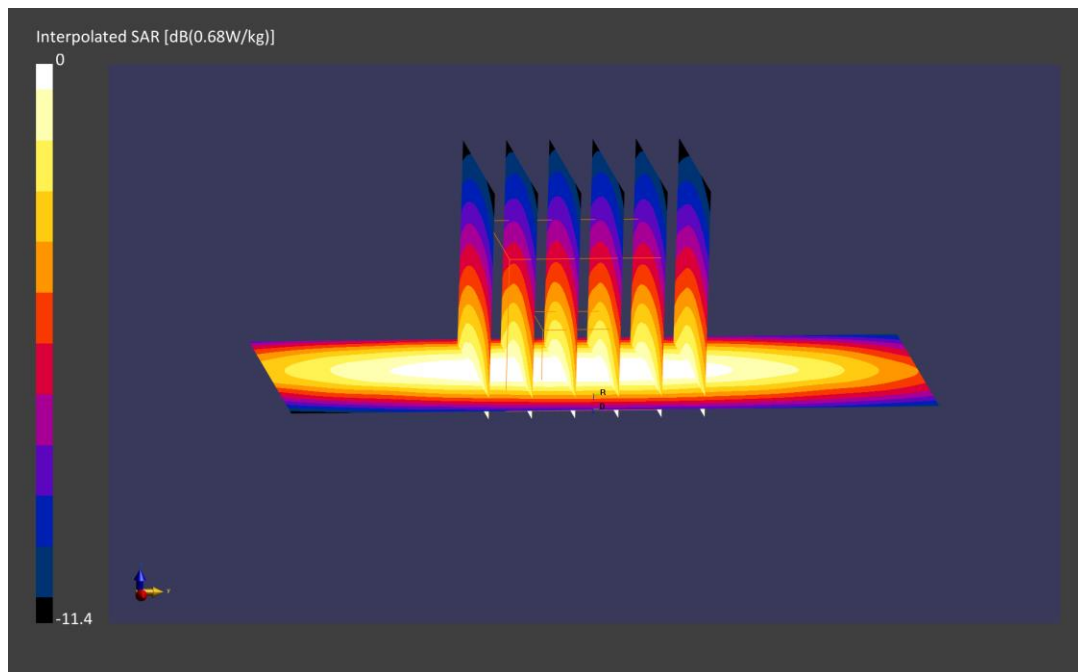
Area Scan (40.0 x 90.0): Measurement grid: $dx=10.0$ mm, $dy=15.0$ mm

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) = 1.14 W/kg

SAR(10 g) = 0.349 W/kg

Deviation (10 g) = 1.45%



ELEMENT MATERIALS TECHNOLOGY

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 = 41.5; density = 1000 kg/m³

Phantom Section: Flat; Space: 15 mm

Test Date: 03/24/2022; Ambient Temp: 22.9°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7552; ConvF:(9.85,9.85,9.85); 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 V16.0.0.65

750 MHz System Verification at 23 dBm (200 mW)

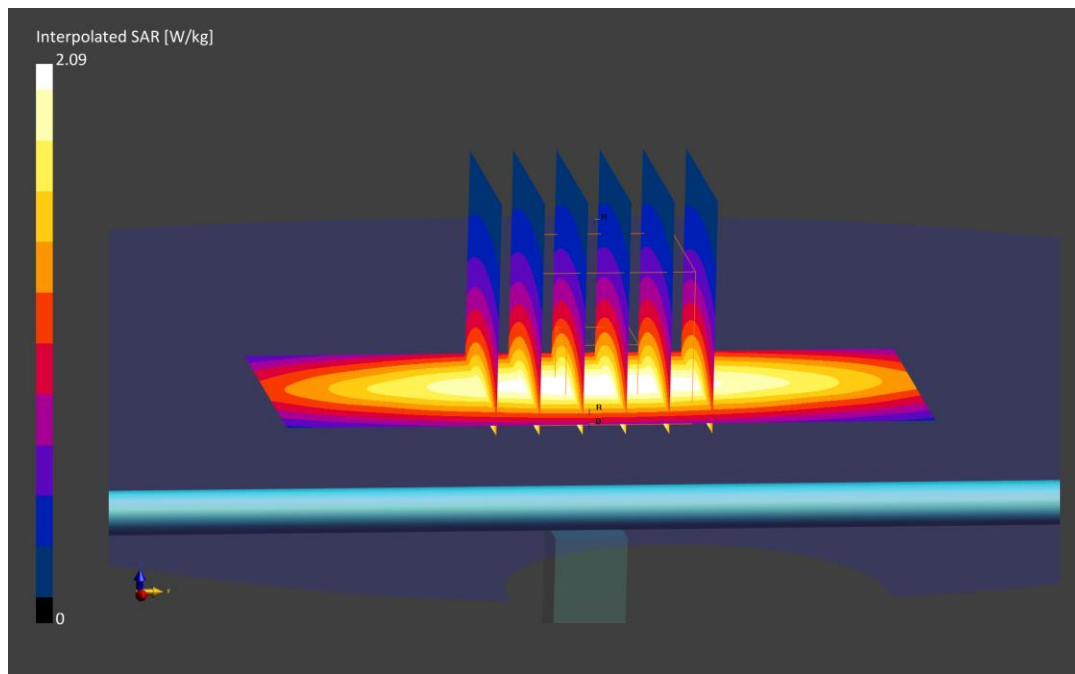
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 2.90 W/kg

SAR(1 g) = 1.82 W/kg

Deviation (1 g) = 3.64%



ELEMENT MATERIALS TECHNOLOGY

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 = 0.911 S/m; perm = 43.1; density = 1000 kg/m³
Phantom Section: Flat; Space: 15 mm

Test Date: 03/30/2022; Ambient Temp: 24.4°C; Tissue Temp: 22.2°C

Probe: EX3DV4 - SN7670; ConvF:(9.86,9.86,9.86); Calibrated: 2021-08-05
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1681; Calibrated: 2021-08-03
Phantom: Twin-SAM V8.0; Serial: 1630
Measurement SW: DASY Module SAR V16.0.0.116

750 MHz System Verification at 23 dBm (200 mW)

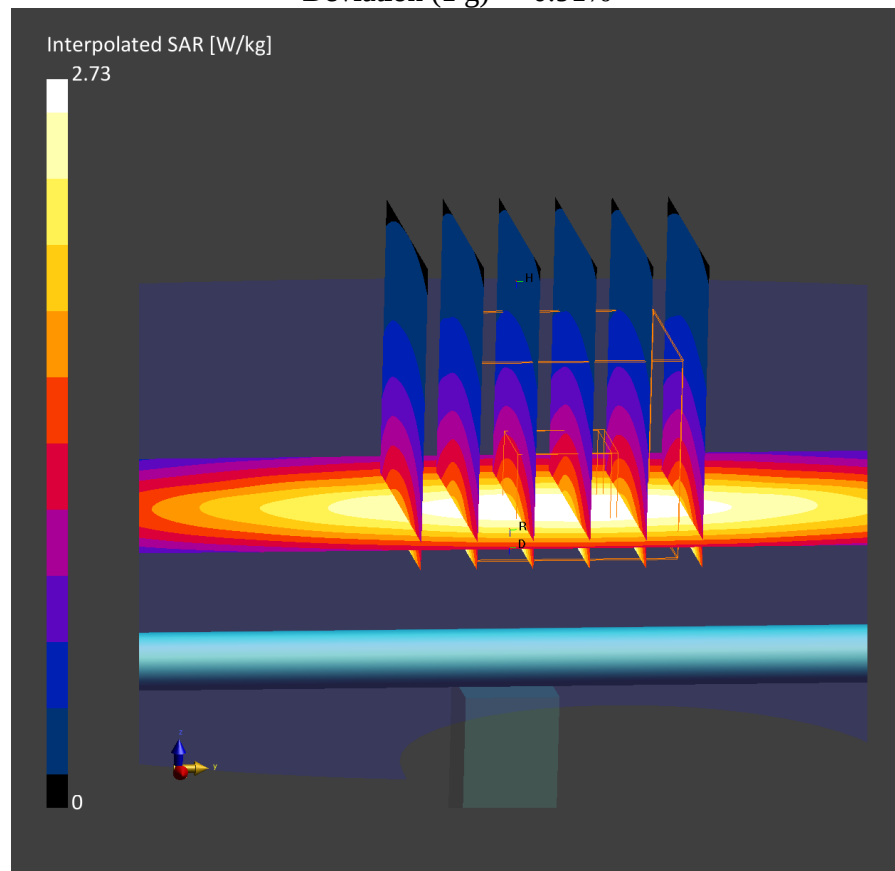
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 2.73 W/kg

SAR(1 g) = 1.74 W/kg

Deviation (1 g) = -0.91%



ELEMENT MATERIALS TECHNOLOGY

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 = 0.911 S/m; perm = 42.1; density = 1000 kg/m³
Phantom Section: Flat; Space: 15 mm

Test Date: 04/10/2022; Ambient Temp: 21.7°C; Tissue Temp: 21.3°C

Probe: EX3DV4 - SN7409; ConvF:(9.97,9.97,9.97); Calibrated: 2021-06-21
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1334; Calibrated: 2021-06-15
Phantom: Twin-SAM V5.0; Serial: 1759
Measurement SW: DASY Module SAR V16.0.0.116

750 MHz System Verification at 23 dBm (200 mW)

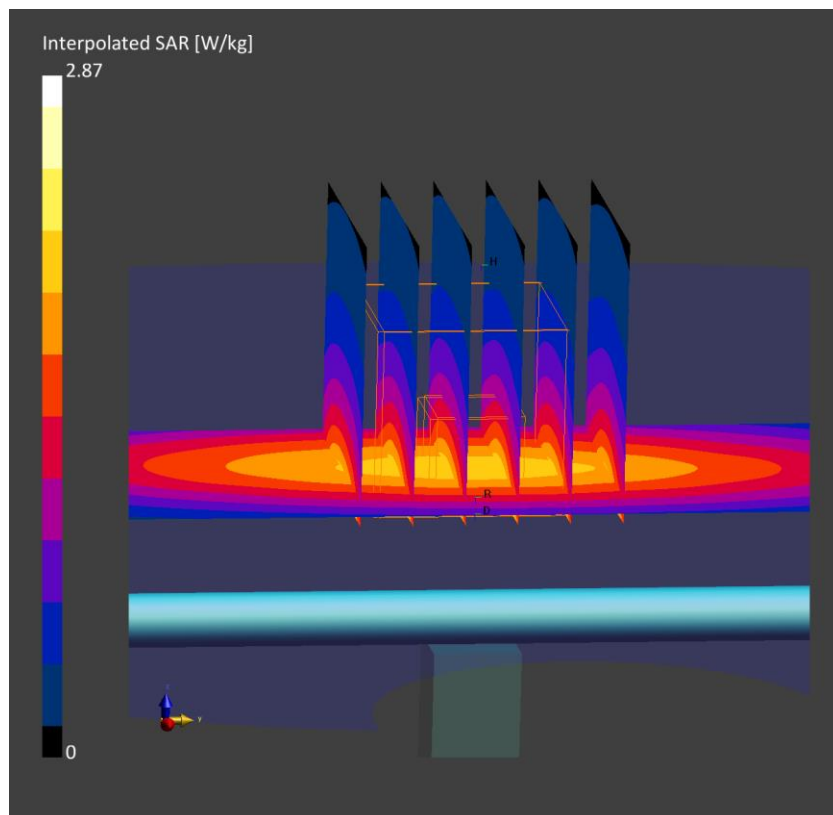
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 2.87 W/kg

SAR(1 g) = 1.81 W/kg

Deviation (1 g) = 7.23%



ELEMENT MATERIALS TECHNOLOGY

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 = 0.941 S/m; perm = 41.2; density = 1000 kg/m³

Phantom Section: Flat; Space: 15 mm

Test Date: 03/24/2022; Ambient Temp: 22.9°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7552; ConvF:(9.42,9.42,9.42); 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 V16.0.0.65

835 MHz System Verification at 23 dBm (200 mW)

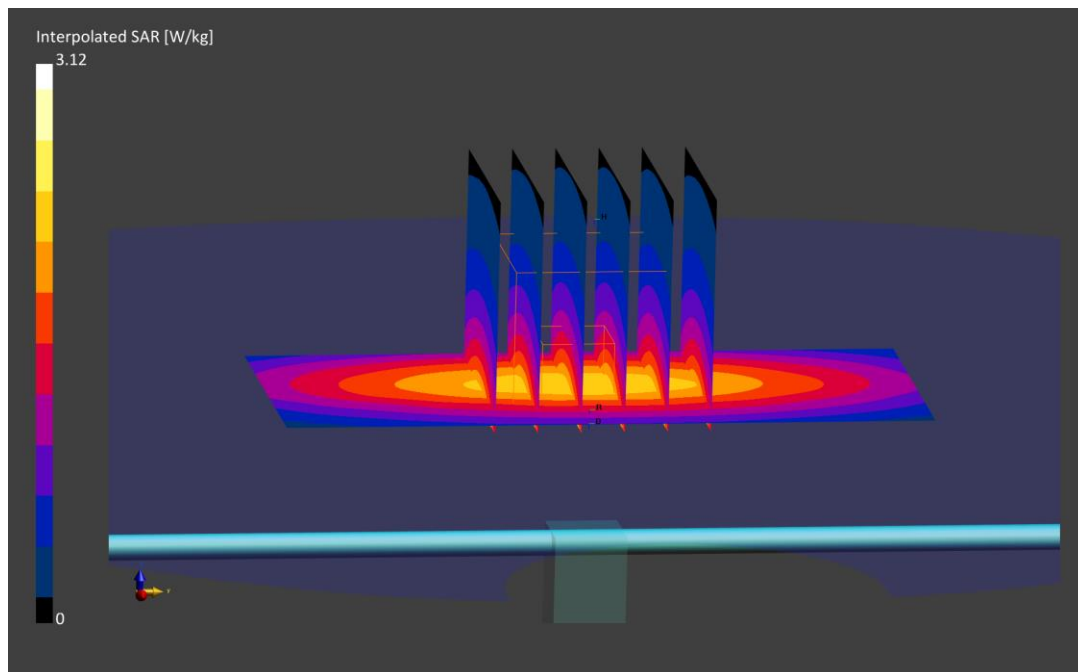
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 3.12 W/kg

SAR(1 g) = 1.95 W/kg

Deviation (1 g) = 0.93%



ELEMENT MATERIALS TECHNOLOGY

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 = 0.943 S/m; perm = 42.6; density = 1000 kg/m³

Phantom Section: Flat; Space: 15 mm

Test Date: 03/30/2022; Ambient Temp: 22.5°C; Tissue Temp: 22.2°C

Probe: EX3DV4 - SN7538; ConvF:(10.23,10.23,10.23); 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 V16.0.0.65

835 MHz System Verification at 23 dBm (200 mW)

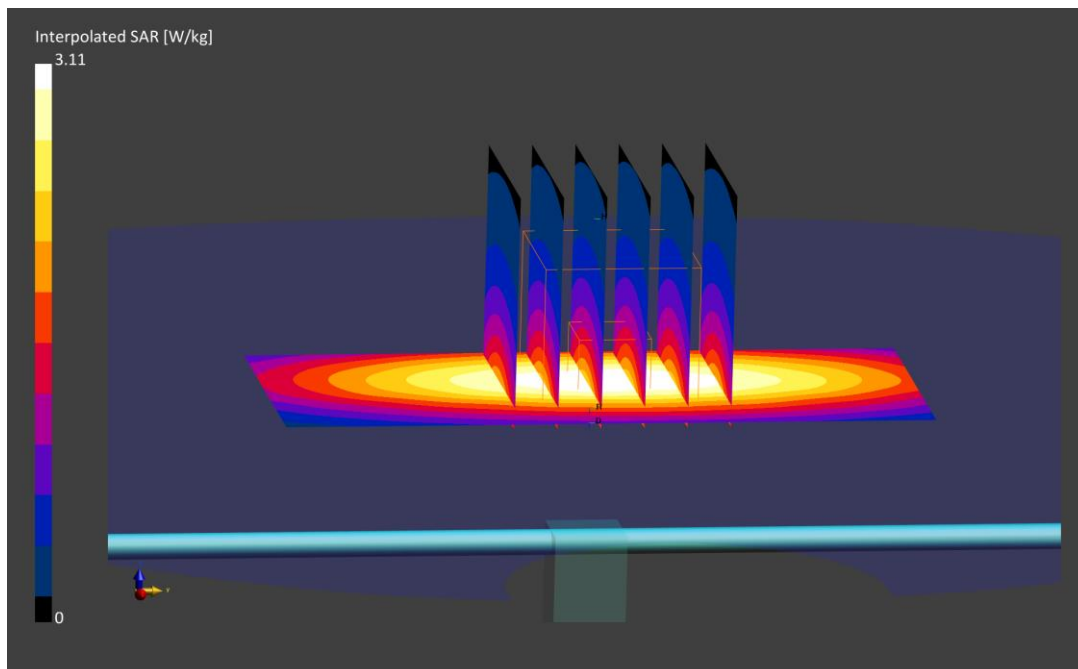
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 3.11 W/kg

SAR(1 g) = 1.96 W/kg

Deviation (1 g) = 1.45%



ELEMENT MATERIALS TECHNOLOGY

DUT: Dipole 835.0 MHz; Type: D835V2 - SN4d047

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 = 40.2; density = 1000 kg/m³
Phantom Section: Flat; Space: 15 mm

Test Date: 04/07/2022; Ambient Temp: 21.4°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7409; ConvF:(9.57,9.57,9.57); Calibrated: 2021-06-21
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1334; Calibrated: 2021-06-15
Phantom: Twin-SAM V5.0; Serial: 1759
Measurement SW: DASY Module SAR V16.0.0.116

835 MHz System Verification at 23 dBm (200 mW)

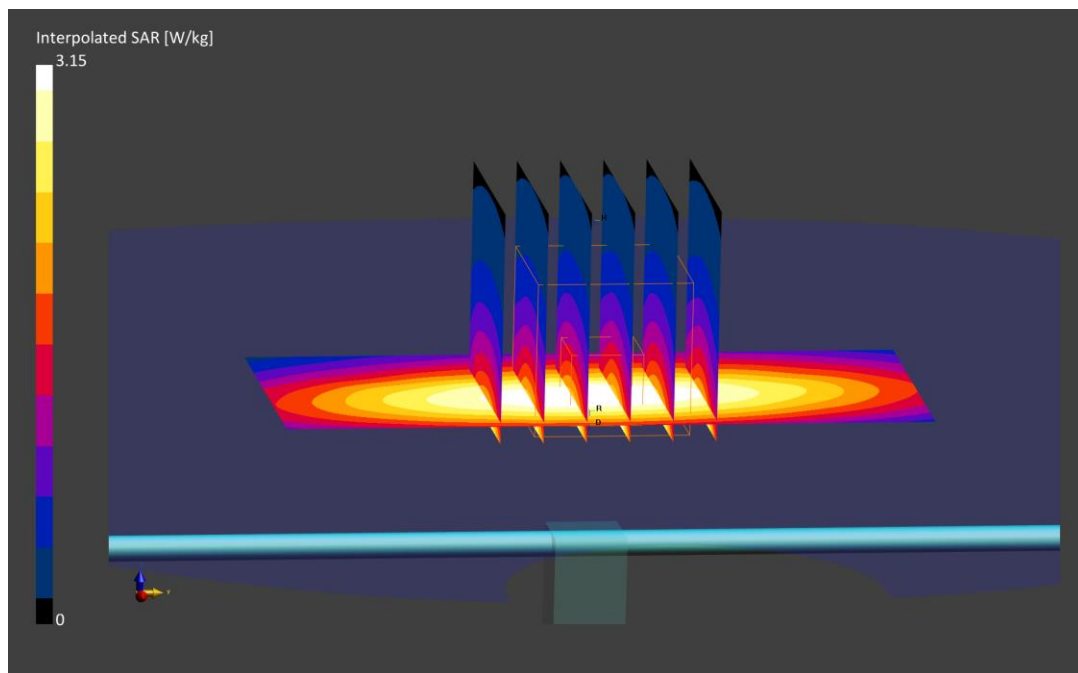
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 3.15 W/kg

SAR(1 g) = 1.96 W/kg

Deviation (1 g) = 1.55%



ELEMENT MATERIALS TECHNOLOGY

DUT: Dipole 1750.0 MHz; Type: D1750V2 - SN1150

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

Medium: 1750 Head; Medium parameters used:

f = 1750.0 MHz; cond = 1.38 S/m; perm = 39.9; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 03/24/2022; Ambient Temp: 23.5°C; Tissue Temp: 21.7°C

Probe: EX3DV4 - SN7406; ConvF:(8.26,8.26,8.26); Calibrated: 2021-07-20

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

Electronics: DAE4 Sn1676; Calibrated: 2021-06-21

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

Measurement SW: DASY Module SAR V16.0.0.65

1750 MHz System Verification at 20 dBm (100 mW)

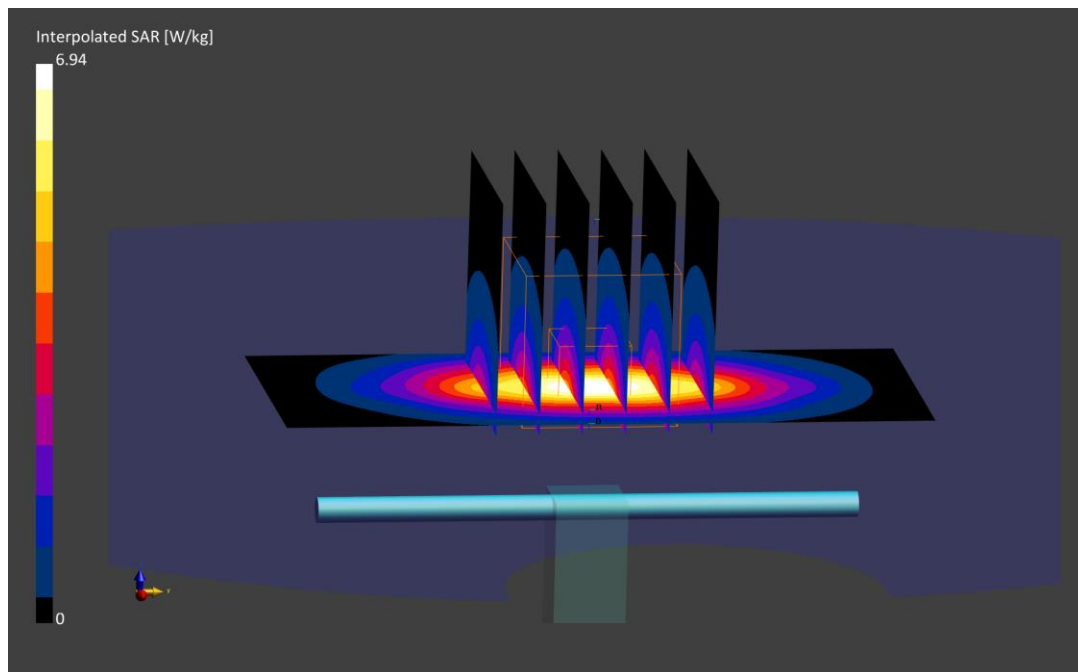
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 6.94 W/kg

SAR(1 g) = 3.63 W/kg

Deviation (1 g) = -1.63%



ELEMENT MATERIALS TECHNOLOGY

DUT: Dipole 1750.0 MHz; Type: D1765V2 - SN1008

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

Medium: 1750 Head; Medium parameters used:

f = 1750.0 MHz; cond = 1.37 S/m; perm = 38.6; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 03/30/2022; Ambient Temp: 22.6°C; Tissue Temp: 22.1°C

Probe: EX3DV4 - SN7552; ConvF:(8.32,8.32,8.32); 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 V16.0.0.65

1750 MHz System Verification at 20 dBm (100 mW)

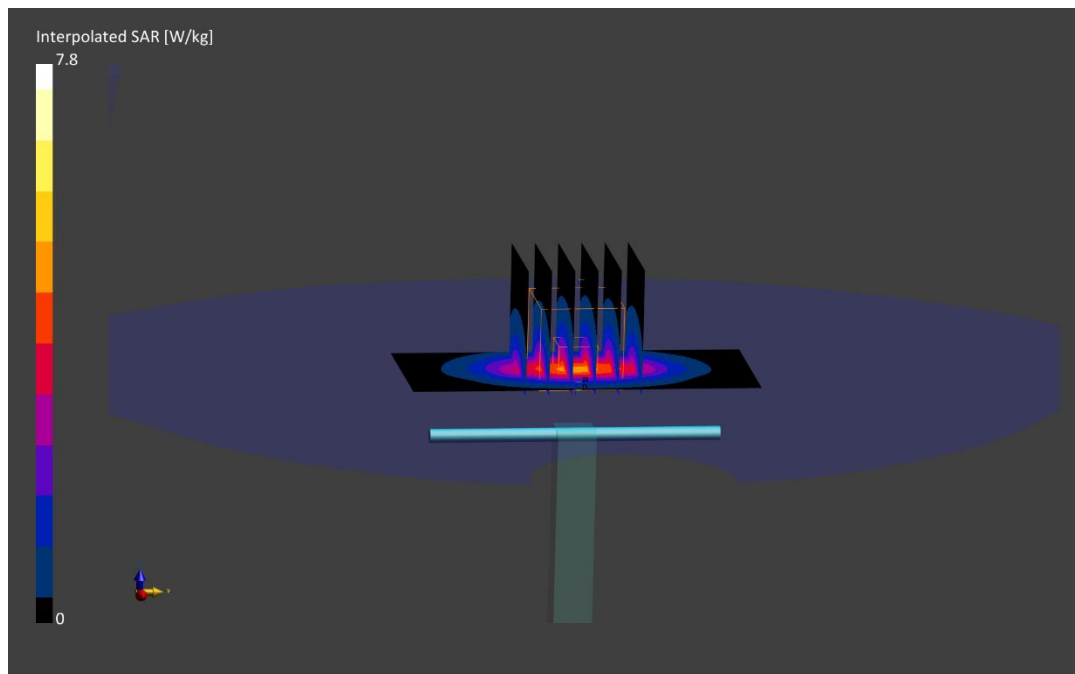
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 7.80 W/kg

SAR(1 g) = 3.95 W/kg

Deviation (1 g) = 5.61%



ELEMENT MATERIALS TECHNOLOGY

DUT: Dipole 1750.0 MHz; Type: D1750V2 - SN1150

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 = 41.8; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 04/19/2022; Ambient Temp: 18.5°C; Tissue Temp: 19.2°C

Probe: EX3DV4 - SN7713; ConvF:(8.8,8.8,8.8); Calibrated: 2022-02-04

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

Electronics: DAE4 Sn1530; Calibrated: 2022-01-12

Phantom: Twin-SAM V8.0; Serial: 1978

Measurement SW: DASY Module SAR V16.0.2.136

1750 MHz System Verification at 20 dBm (100 mW)

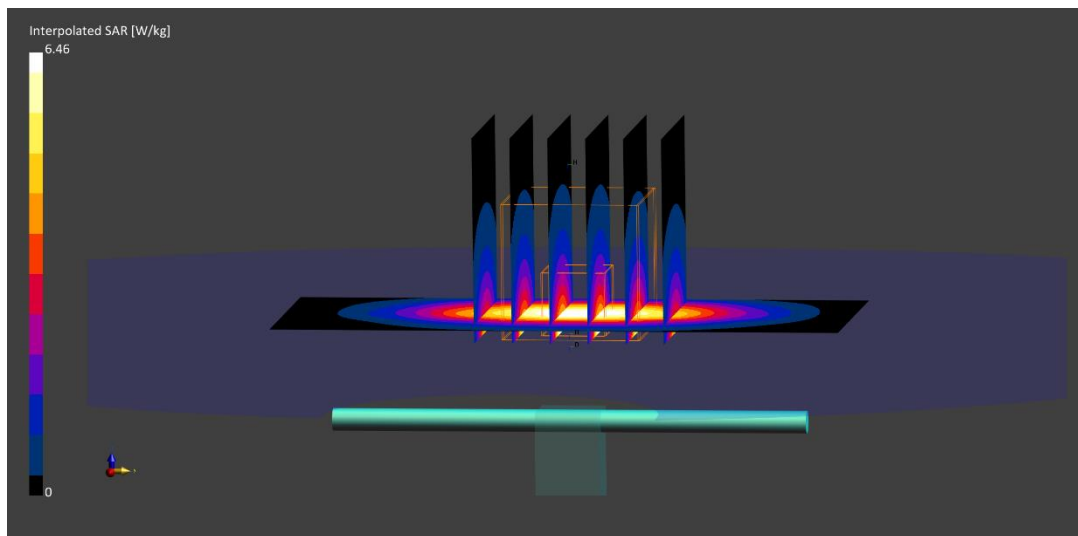
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 6.46 W/kg

SAR(1 g) = 3.57 W/kg

Deviation (1 g) = -3.25%



ELEMENT MATERIALS TECHNOLOGY

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 = 1.40 S/m; perm = 39.2; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 03/28/2022; Ambient Temp: 21.8°C; Tissue Temp: 24.2°C

Probe: EX3DV4 - SN7538; ConvF:(8.3,8.3,8.3); 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 V16.0.0.65

1900 MHz System Verification at 20 dBm (100 mW)

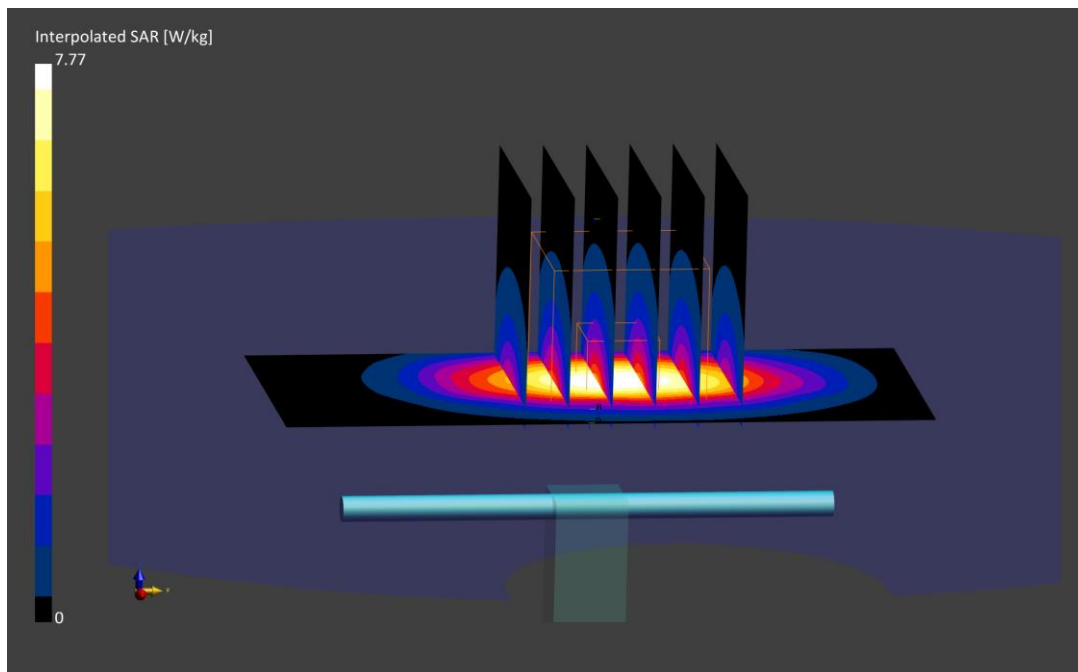
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 7.77 W/kg

SAR(1 g) = 4.04 W/kg

Deviation (1 g) = 0.75%



ELEMENT MATERIALS TECHNOLOGY

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 = 1.45 S/m; perm = 40.0; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 04/07/2022; Ambient Temp: 23.2°C; Tissue Temp: 22.4°C

Probe: EX3DV4 - SN3914; ConvF:(7.99,7.99,7.99); Calibrated: 2021-05-18

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

Electronics: DAE4 Sn728; Calibrated: 2021-05-11

Phantom: Twin-SAM V5.0; Serial: 1873

Measurement SW: DASY Module SAR V16.0.0.116

1900 MHz System Verification at 20 dBm (100 mW)

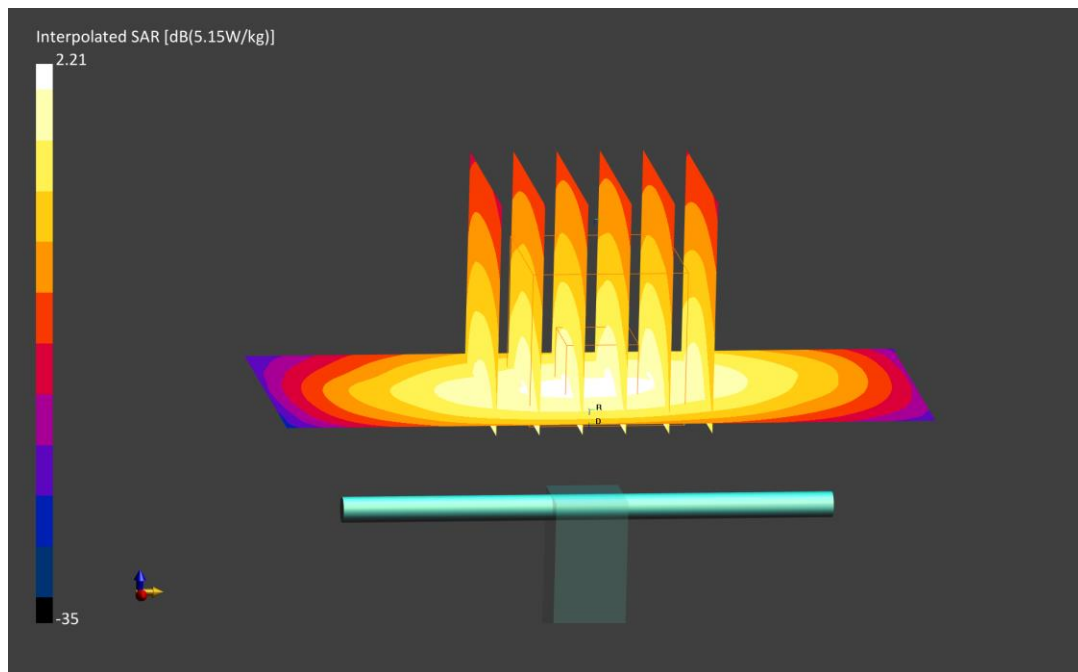
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 8.57 W/kg

SAR(1 g) = 4.25 W/kg

Deviation (1 g) = 4.94%



ELEMENT MATERIALS TECHNOLOGY

DUT: Dipole 1900.0 MHz; Type: D1900V2 - SN5d080

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 = 41.6; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 04/19/2022; Ambient Temp: 18.5°C; Tissue Temp: 19.2°C

Probe: EX3DV4 - SN7713; ConvF:(8.52,8.52,8.52); Calibrated: 2022-02-04

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

Electronics: DAE4 Sn1530; Calibrated: 2022-01-12

Phantom: Twin-SAM V8.0; Serial: 1978

Measurement SW: DASY Module SAR V16.0.2.136

1900 MHz System Verification at 20 dBm (100 mW)

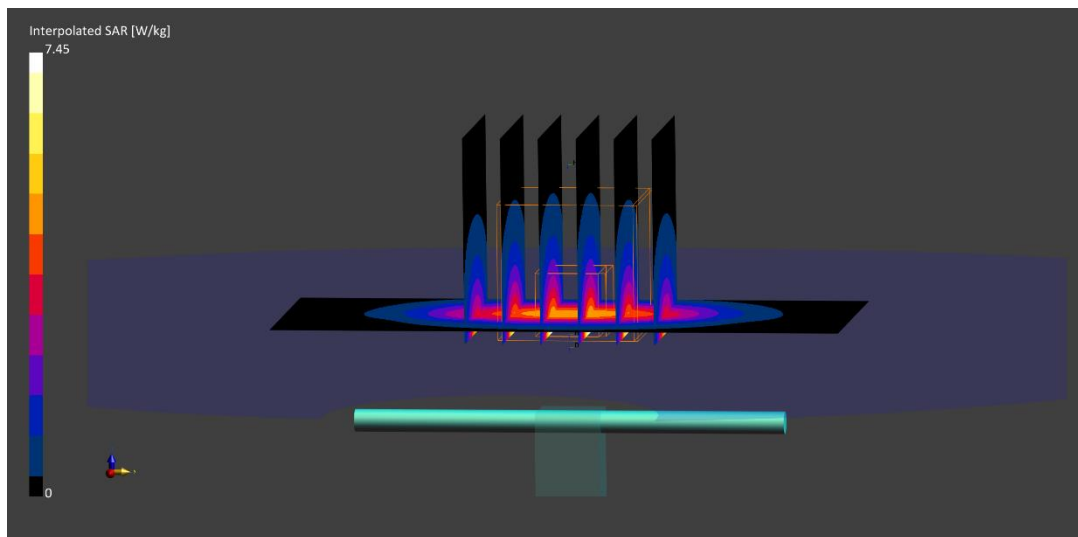
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 7.44 W/kg

SAR(1 g) = 3.98 W/kg

Deviation (1 g) = -1.73%



ELEMENT MATERIALS TECHNOLOGY

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 = 1.73 S/m; perm = 37.9; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 04/10/2022; Ambient Temp: 23.3°C; Tissue Temp: 21.5°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)

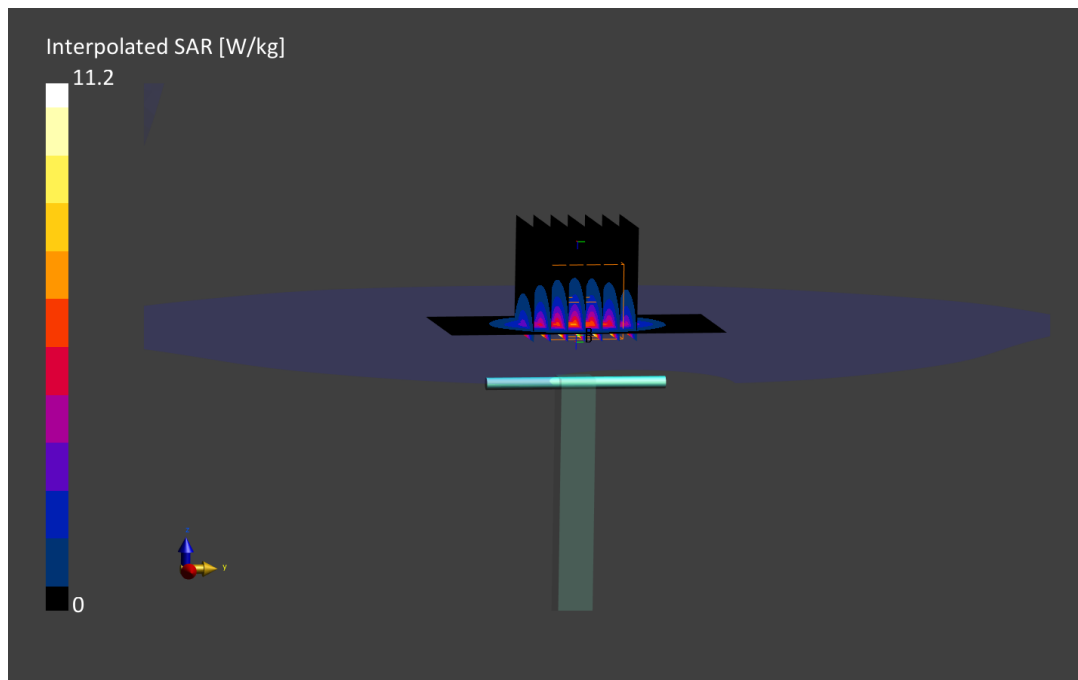
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 11.2 W/kg

SAR(1 g) = 5.04 W/kg

Deviation (1 g) = -3.82%



ELEMENT MATERIALS TECHNOLOGY

DUT: Dipole 2600.0 MHz; Type: D2600V2 - SN1064

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 = 37.3; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 04/10/2022; Ambient Temp: 23.3°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN7410; ConvF:(7.37,7.37,7.37); 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

2600 MHz System Verification at 20 dBm (100 mW)

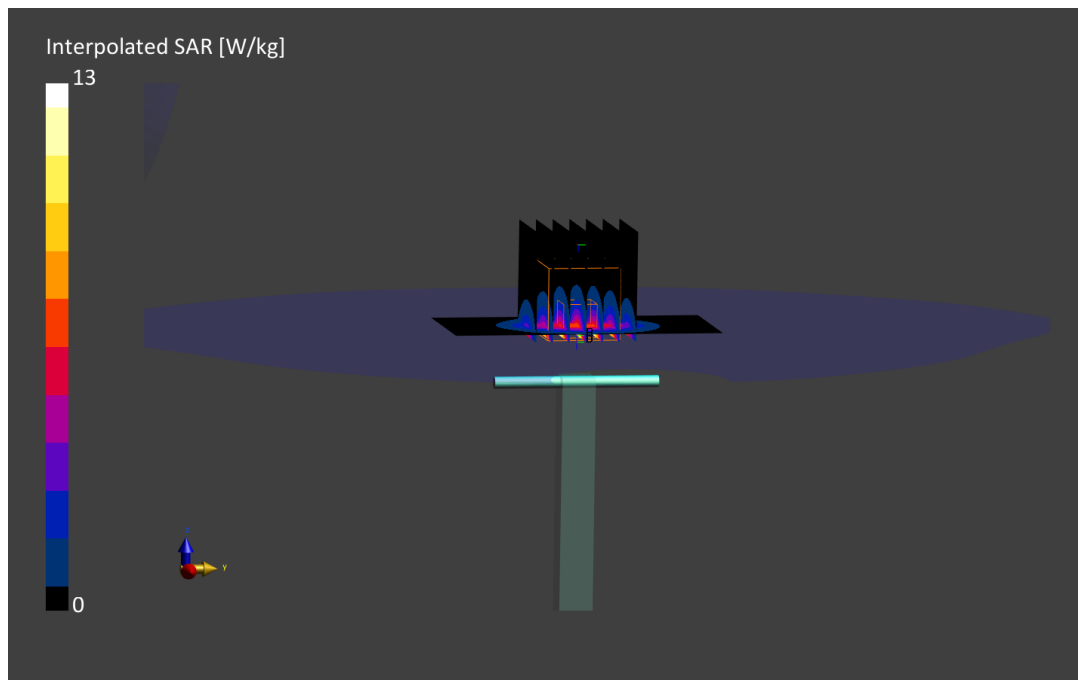
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 5.51 W/kg

Deviation (1 g) = -5.16%



ELEMENT MATERIALS TECHNOLOGY

DUT: Dipole 2600.0 MHz; Type: D2600V2 - SN1064

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

Medium: 2450 Head; Medium parameters used:

f = 2600.0 MHz; cond = 2.03 S/m; perm = 37.4; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 04/24/2022; Ambient Temp: 23.0°C; Tissue Temp: 22.6°C

Probe: EX3DV4 - SN7410; ConvF:(7.37,7.37,7.37); 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

2600 MHz System Verification at 20 dBm (100 mW)

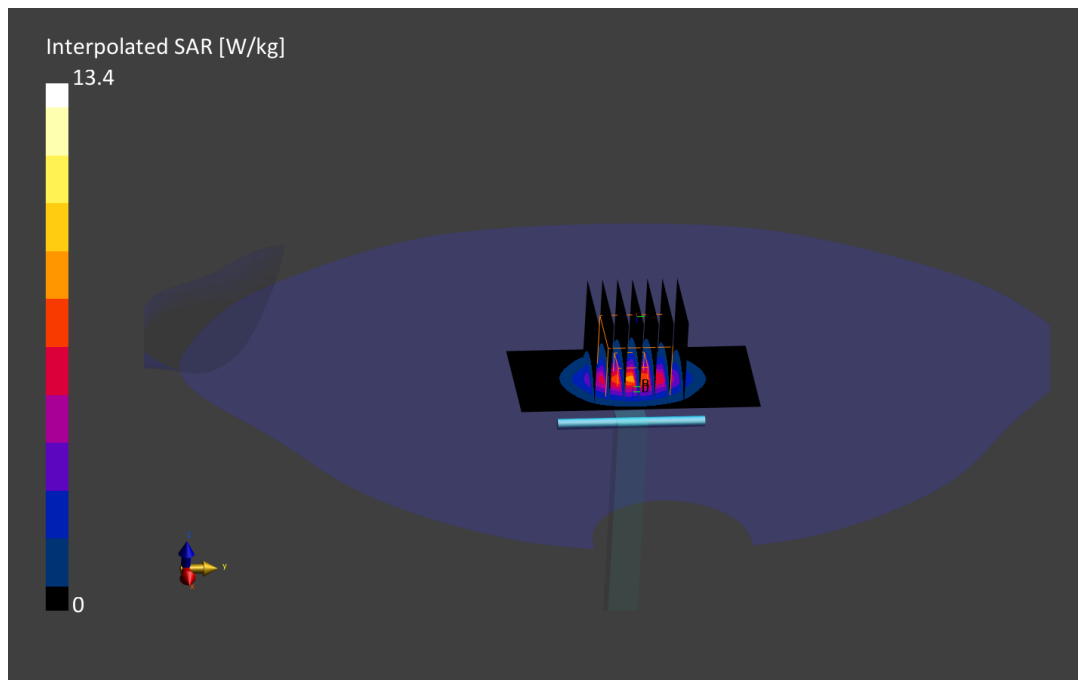
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 13.4 W/kg

SAR(1 g) = 5.94 W/kg

Deviation (1 g) = 2.24



ELEMENT MATERIALS TECHNOLOGY

DUT: Dipole 3500.0 MHz; Type: D3500V2 - SN1059

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

Medium: 3600 Head; Medium parameters used:

f = 3500.0 MHz; cond = 2.81 S/m; perm = 39.4; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 04/06/2022; Ambient Temp: 20.7°C; Tissue Temp: 20.0°C

Probe: EX3DV4 - SN7670; ConvF:(7.14,7.14,7.14); Calibrated: 2021-08-05

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

Electronics: DAE4 Sn1681; Calibrated: 2021-08-03

Phantom: Twin-SAM V8.0; Serial: 1630

Measurement SW: DASY Module SAR V16.0.0.116

3500 MHz System Verification at 20 dBm (100 mW)

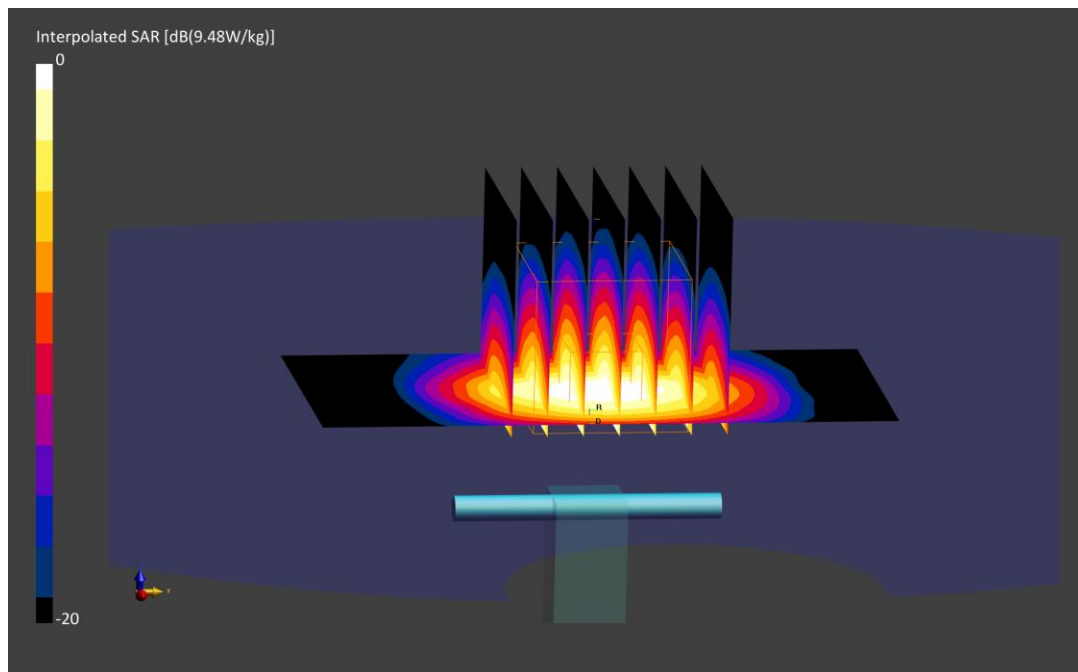
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 17.0 W/kg

SAR(1 g) = 6.73 W/kg

Deviation (1 g) = 5.65%



ELEMENT MATERIALS TECHNOLOGY

DUT: Dipole 3700.0 MHz; Type: D3700V2 - SN1067

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

Medium: 3600 Head; Medium parameters used:

f = 3700.0 MHz; cond = 3.00 S/m; perm = 39.0; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 04/06/2022; Ambient Temp: 20.7°C; Tissue Temp: 20.0°C

Probe: EX3DV4 - SN7670; ConvF:(6.93,6.93,6.93); Calibrated: 2021-08-05

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

Electronics: DAE4 Sn1681; Calibrated: 2021-08-03

Phantom: Twin-SAM V8.0; Serial: 1630

Measurement SW: DASY Module SAR V16.0.0.116

3700 MHz System Verification at 20 dBm (100 mW)

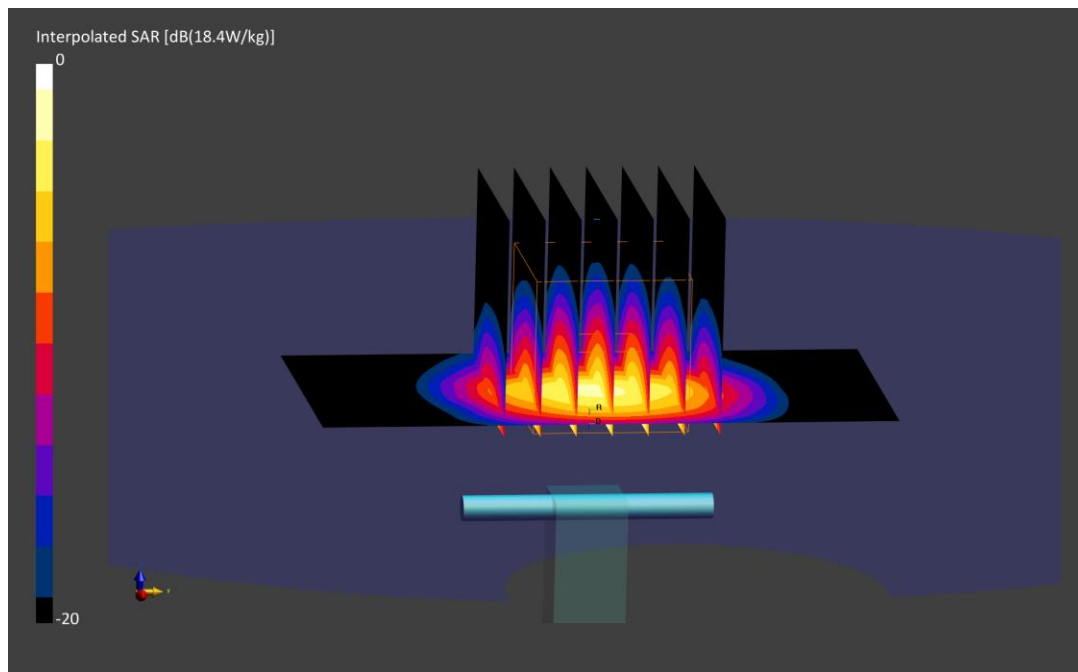
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 18.4 W/kg

SAR(1 g) = 6.88 W/kg

Deviation (1 g) = 2.38%



ELEMENT MATERIALS TECHNOLOGY

DUT: Dipole 3700.0 MHz; Type: D3700V2 - SN1067

Communication System: UID: 0, CW; Frequency: 3700.0 MHz
Medium: 3600 Head; Medium parameters used:
f = 3700.0 MHz; cond = 2.97 S/m; perm = 39.2; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 04/24/2022; Ambient Temp: 21.5°C; Tissue Temp: 21.6°C

Probe: EX3DV4 - SN7670; ConvF:(6.93,6.93,6.93); Calibrated: 2021-08-05
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1681; Calibrated: 2021-08-03
Phantom: Twin-SAM V8.0; Serial: 1630
Measurement SW: DASY Module SAR V16.0.2.136

3700 MHz System Verification at 20 dBm (100 mW)

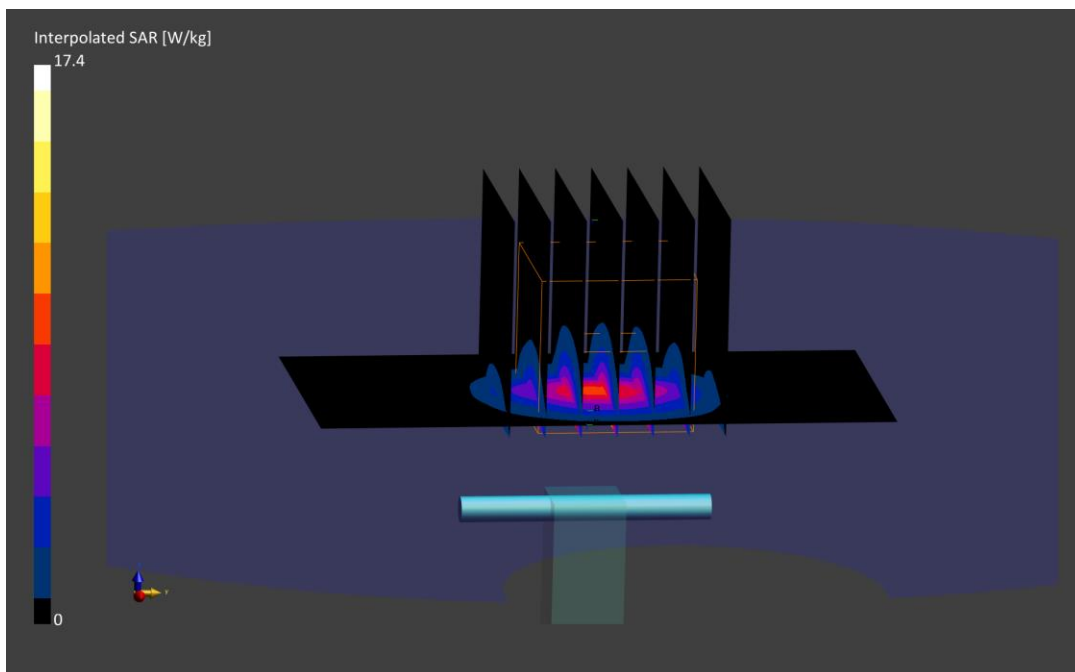
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 17.4 W/kg

SAR(1 g) = 6.58 W/kg

Deviation (1 g) = -2.08%



ELEMENT MATERIALS TECHNOLOGY

DUT: Dipole 3900.0 MHz; Type: D3900V2 - SN1056

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

Medium: 3600 Head; Medium parameters used:

f = 3900.0 MHz; cond = 3.17 S/m; perm = 38.9; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 04/24/2022; Ambient Temp: 21.5°C; Tissue Temp: 21.6°C

Probe: EX3DV4 - SN7670; ConvF:(6.5,6.5,6.5); Calibrated: 2021-08-05

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

Electronics: DAE4 Sn1681; Calibrated: 2021-08-03

Phantom: Twin-SAM V8.0; Serial: 1630

Measurement SW: DASY Module SAR V16.0.2.136

3900 MHz System Verification at 20 dBm (100 mW)

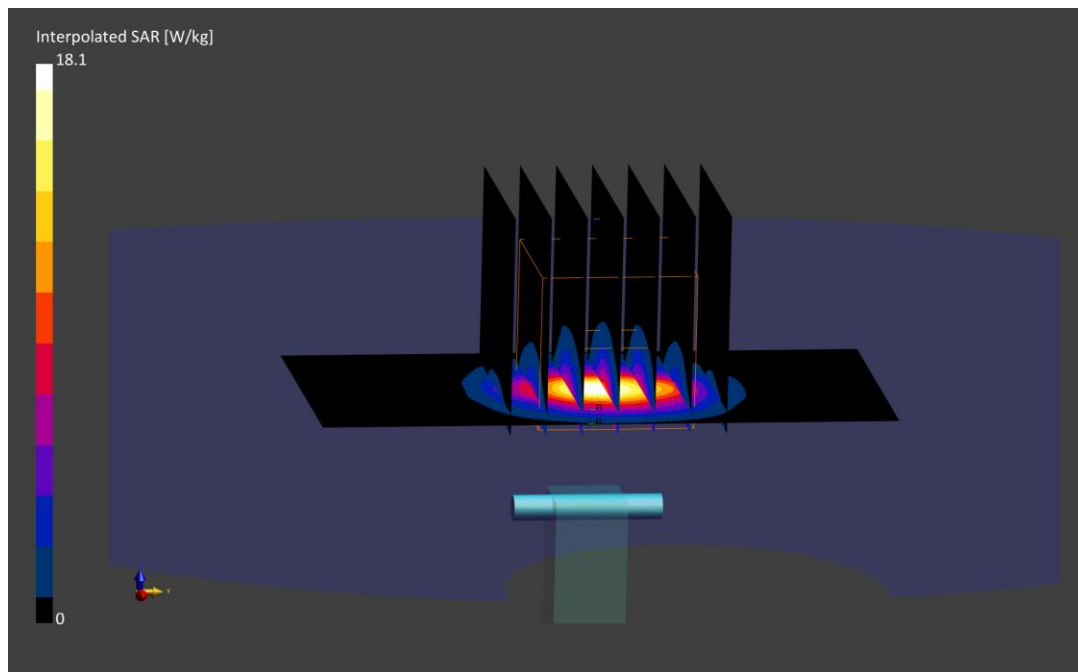
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 18.1 W/kg

SAR(1 g) = 6.93 W/kg

Deviation (1 g) = 0.58%



ELEMENT MATERIALS TECHNOLOGY

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 = 0.984 S/m; perm = 54.6; density = 1000 kg/m³

Phantom Section: Flat; Space: 15 mm

Test Date: 03/24/2022; Ambient Temp: 22.8°C; Tissue Temp: 21.9°C

Probe: EX3DV4 - SN7410; ConvF:(9.9,9.9,9.9); 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: cDASY6 Module SAR V16.0.0.116

750.0 MHz System Verification at 23.0 dBm

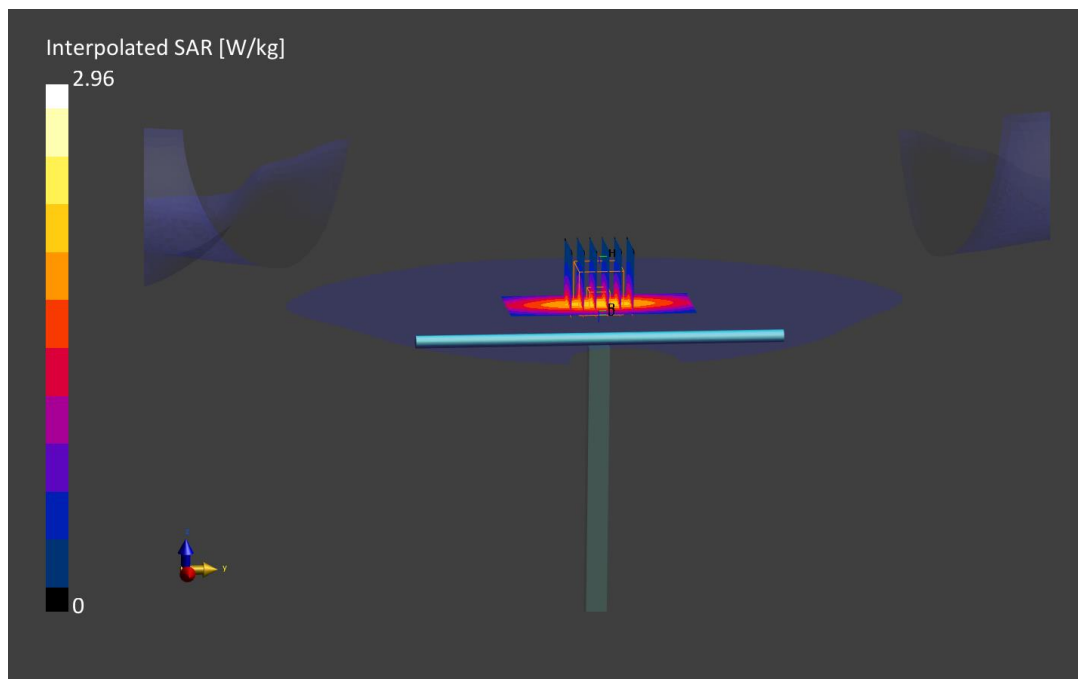
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0mm, dy=15.0mm

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

Peak SAR (extrapolated) = 2.96 W/kg

SAR(1 g) = 1.86 W/kg

Deviation (1 g) = 5.80%



ELEMENT MATERIALS TECHNOLOGY

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 = 0.967 S/m; perm = 54.9; density = 1000 kg/m³

Phantom Section: Flat; Space: 15 mm

Test Date: 03/31/2022; Ambient Temp: 21.0°C; Tissue Temp: 20.4°C

Probe: EX3DV4 - SN7409; ConvF:(9.96,9.96,9.96); Calibrated: 2021-06-21

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

Electronics: DAE4 Sn1334; Calibrated: 2021-06-15

Phantom: Twin-SAM V5.0; Serial: 1759

Measurement SW: DASY Module SAR V16.0.0.116

750 MHz System Verification at 23 dBm (200 mW)

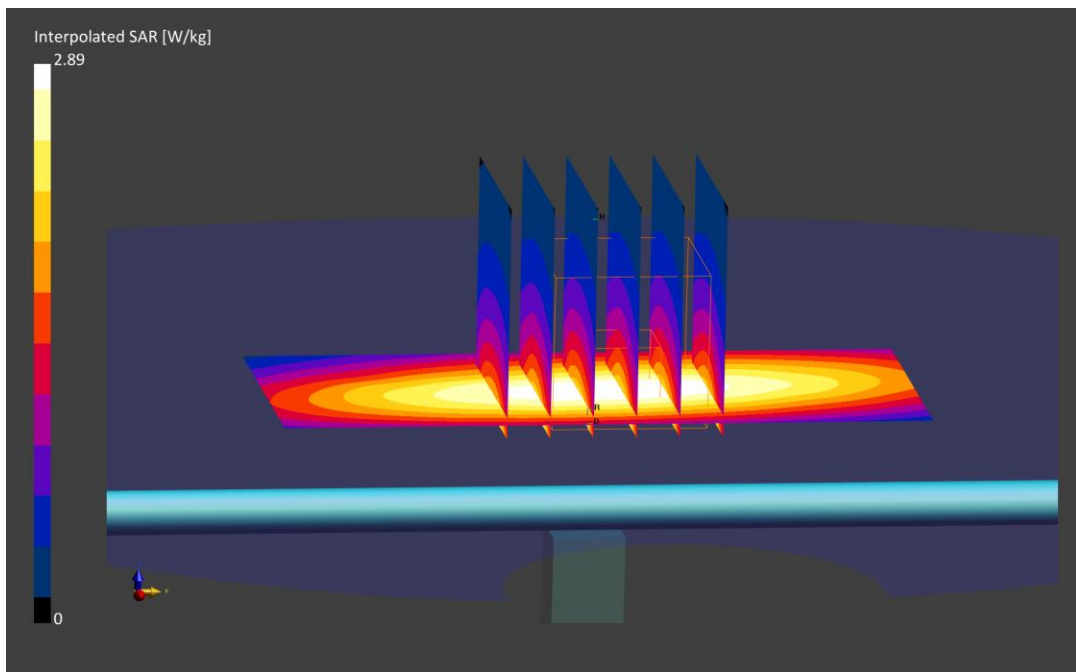
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 2.89 W/kg

SAR(1 g) = 1.86 W/kg

Deviation (1 g) = 5.80%



ELEMENT MATERIALS TECHNOLOGY

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 = 0.946 S/m; perm = 54.0; density = 1000 kg/m³

Phantom Section: Flat; Space: 15 mm

Test Date: 04/04/2022; Ambient Temp: 20.3°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN7661; ConvF:(10.26,10.26,10.26); Calibrated: 2021-06-28

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

Electronics: DAE4 Sn1450; Calibrated: 2021-08-16

Phantom: Twin-SAM V5.0; Serial: 1692rightback

Measurement SW: DASY Module SAR V16.0.0.116

750 MHz System Verification at 23 dBm (200 mW)

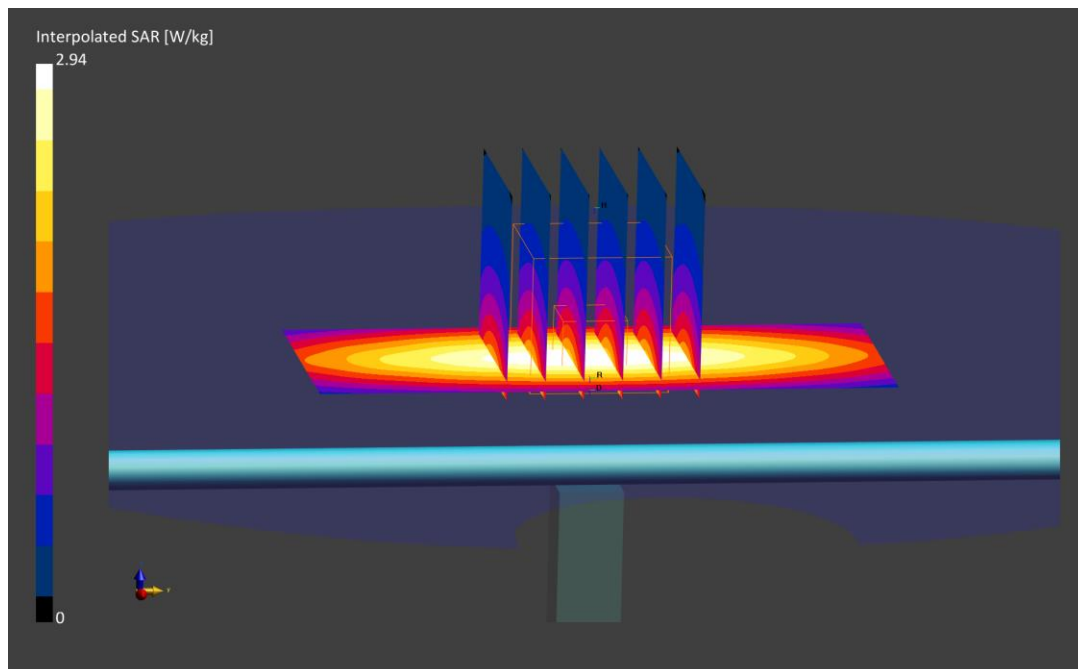
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 2.94 W/kg

SAR(1 g) = 1.84 W/kg

Deviation (1 g) = 4.66%



ELEMENT MATERIALS TECHNOLOGY

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 = 0.943 S/m; perm = 53.2; density = 1000 kg/m³

Phantom Section: Flat; Space: 15 mm

Test Date: 03/25/2022; Ambient Temp: 21.3°C; Tissue Temp: 21.2°C

Probe: EX3DV4 - SN7409; ConvF:(9.66,9.66,9.66); Calibrated: 2021-06-21

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

Electronics: DAE4 Sn1334; Calibrated: 2021-06-15

Phantom: Twin-SAM V5.0; Serial: 1759

Measurement SW: DASY Module SAR V16.0.0.116

835 MHz System Verification at 23 dBm (200 mW)

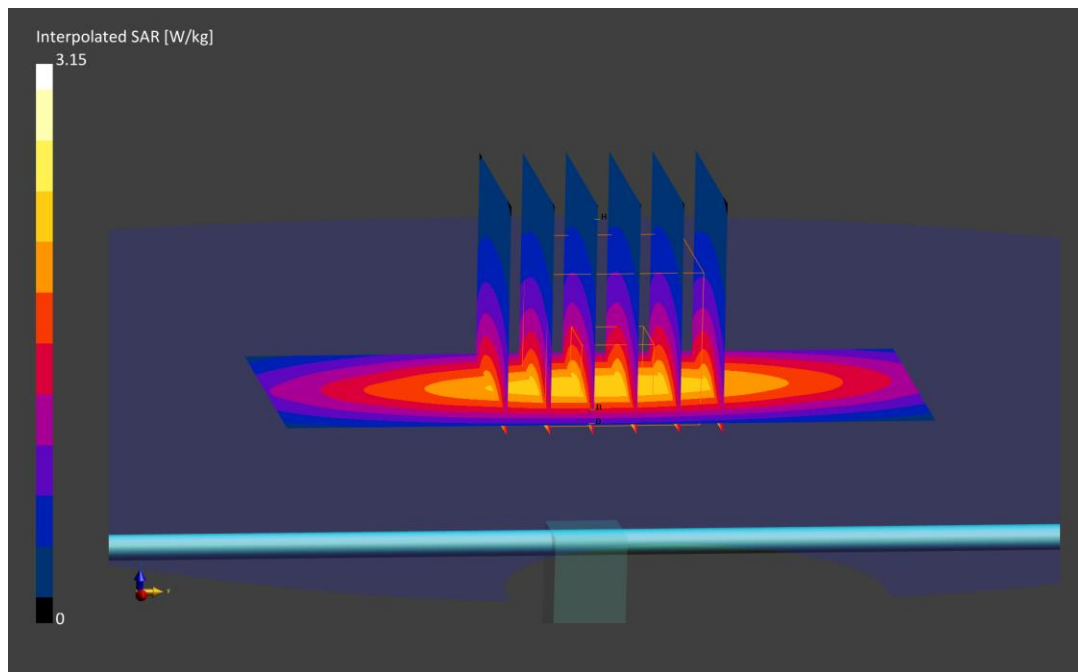
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 3.15 W/kg

SAR(1 g) = 2.03 W/kg

Deviation (1 g) = 3.47%



ELEMENT MATERIALS TECHNOLOGY

DUT: Dipole 835.0 MHz; Type: D835V2 - SN4d047

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

Medium: 835 Body; Medium parameters used:

f = 835.0 MHz; cond = 0.953 S/m; perm = 53.5; density = 1000 kg/m³

Phantom Section: Flat; Space: 15 mm

Test Date: 04/03/2022; Ambient Temp: 20.9°C; Tissue Temp: 21.1°C

Probe: EX3DV4 - SN7409; ConvF:(9.66,9.66,9.66); Calibrated: 2021-06-21

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

Electronics: DAE4 Sn1334; Calibrated: 2021-06-15

Phantom: Twin-SAM V5.0; Serial: 1759

Measurement SW: DASY Module SAR V16.0.0.116

835 MHz System Verification at 23 dBm (200 mW)

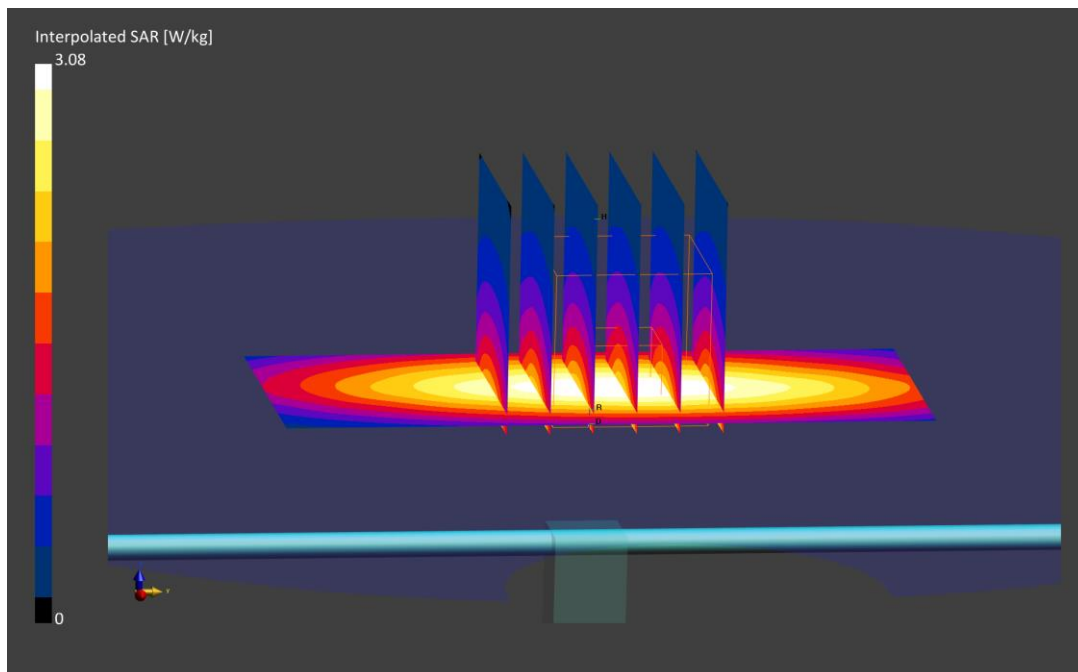
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 3.08 W/kg

SAR(1 g) = 2.01 W/kg

Deviation (1 g) = 3.82%



ELEMENT MATERIALS TECHNOLOGY

DUT: Dipole 1750.0 MHz; Type: D1750V2 - SN1150

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

Medium: 1750 Body; Medium parameters used:

f = 1750.0 MHz; cond = 1.51 S/m; perm = 52.5; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 03/27/2022; Ambient Temp: 21.5°C; Tissue Temp: 21.3°C

Probe: EX3DV4 - SN7409; ConvF:(7.99,7.99,7.99); Calibrated: 2021-06-21

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

Electronics: DAE4 Sn1334; Calibrated: 2021-06-15

Phantom: Twin-SAM V5.0; Serial: 1759

Measurement SW: DASY Module SAR V16.0.0.116

1750 MHz System Verification at 20 dBm (100 mW)

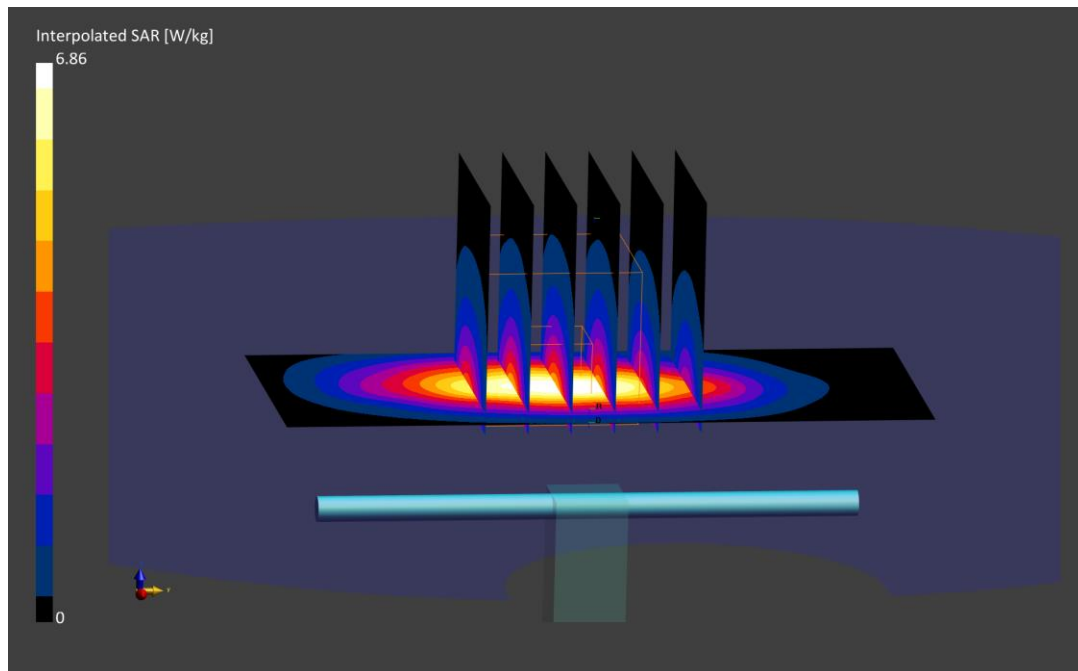
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 6.86 W/kg

SAR(1 g) = 3.80 W/kg

Deviation (1 g) = 0.53%



ELEMENT MATERIALS TECHNOLOGY

DUT: Dipole 1750.0 MHz; Type: D1750V2 - SN1150

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

Medium: 1750 Body; Medium parameters used:

f = 1750.0 MHz; cond = 1.51 S/m; perm = 52.8; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 03/30/2022; Ambient Temp: 21.5°C; Tissue Temp: 21.2°C

Probe: EX3DV4 - SN3914; ConvF:(7.81,7.81,7.81); Calibrated: 2021-05-18

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

Electronics: DAE4 Sn728; Calibrated: 2021-05-11

Phantom: Twin-SAM V5.0; Serial: 1873

Measurement SW: DASY Module SAR V16.0.0.116

1750 MHz System Verification at 20 dBm (100 mW)

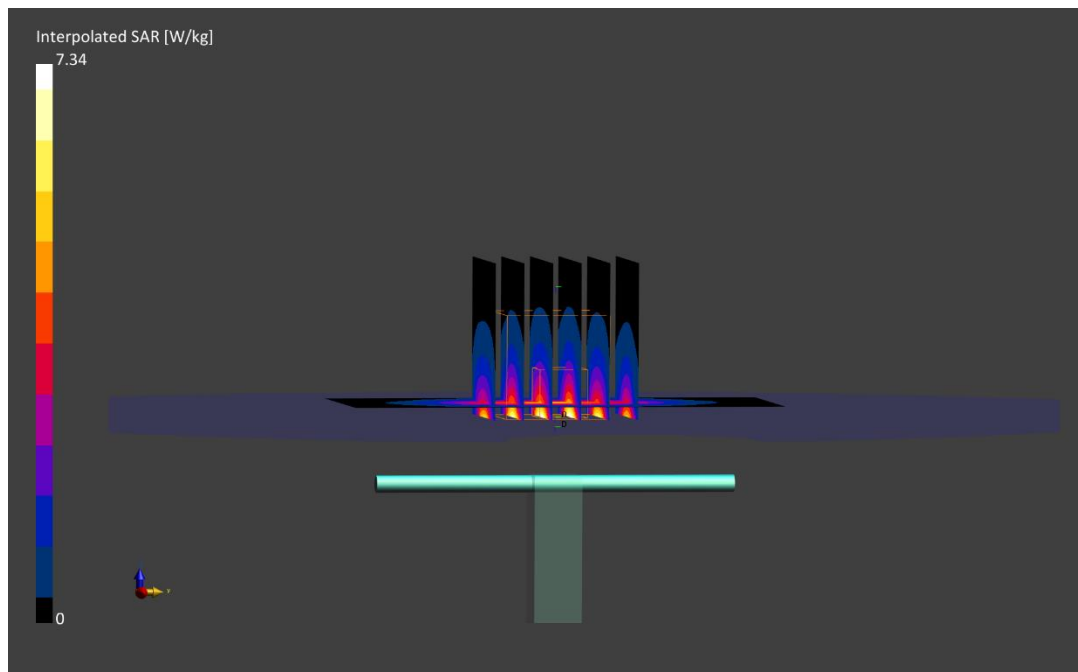
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 7.34 W/kg

SAR(1 g) = 3.78 W/kg

Deviation (1 g) = 0.00%



ELEMENT MATERIALS TECHNOLOGY

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 = 1.47 S/m; perm = 52.9; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 05/05/2022; Ambient Temp: 21.5°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7670; ConvF:(8.36,8.36,8.36); Calibrated: 2021-08-05

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

Electronics: DAE4 Sn1681; Calibrated: 2021-08-03

Phantom: Twin-SAM V8.0; Serial: 1966

Measurement SW: DASY Module SAR V16.0.2.136

1750 MHz System Verification at 20 dBm (100 mW)

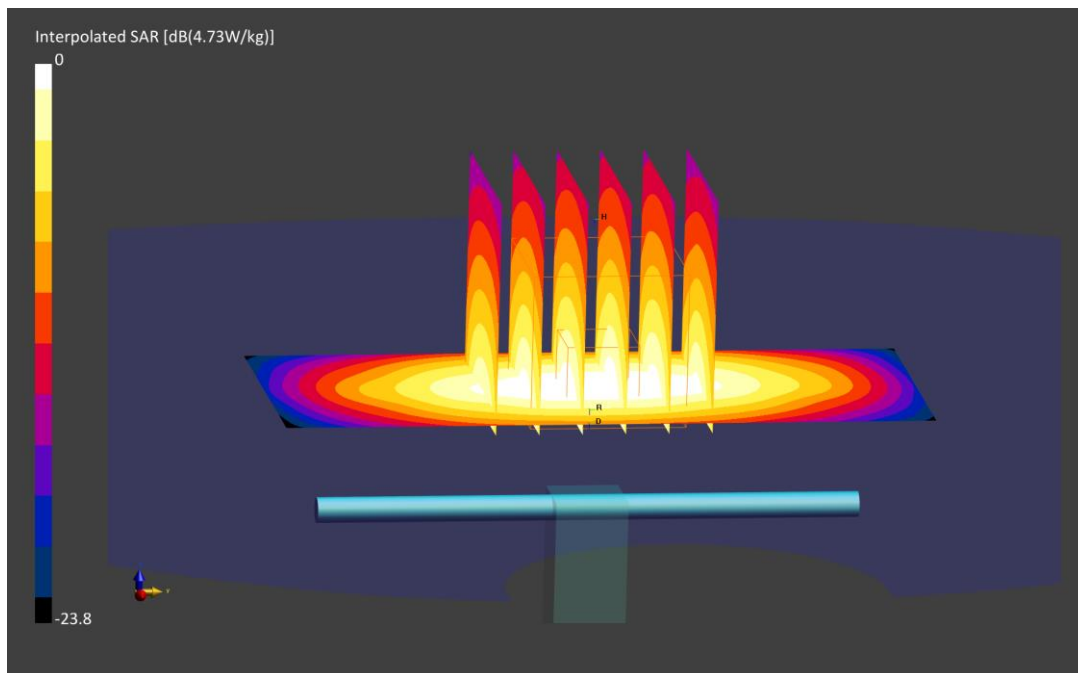
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 6.78 W/kg

SAR(1 g) = 3.70 W/kg

Deviation (1 g) = -2.12%



ELEMENT MATERIALS TECHNOLOGY

DUT: Dipole 1900.0 MHz; Type: D1900V2 - SN5d080

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 = 51.4; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 03/28/2022; Ambient Temp: 22.8°C; Tissue Temp: 22.3°C

Probe: EX3DV4 - SN3914; ConvF:(7.53,7.53,7.53); Calibrated: 2021-05-18

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

Electronics: DAE4 Sn728; Calibrated: 2021-05-11

Phantom: Twin-SAM V5.0; Serial: 1873

Measurement SW: DASY Module SAR V16.0.0.116

1900 MHz System Verification at 20 dBm (100 mW)

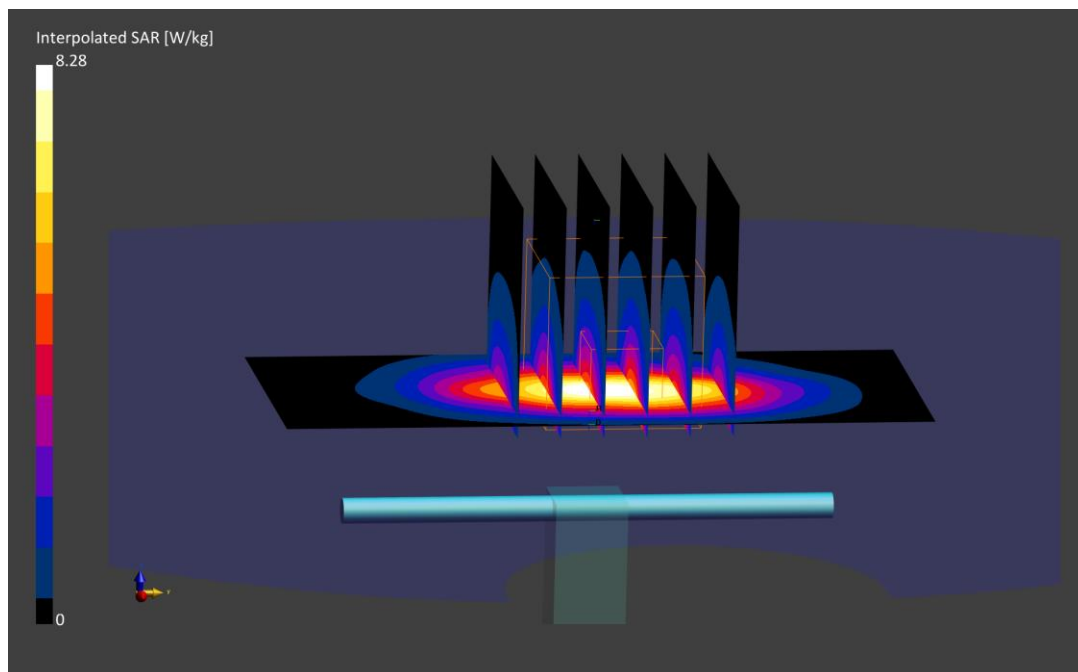
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 8.28 W/kg

SAR(1 g) = 4.34 W/kg

Deviation (1 g) = 6.63%



ELEMENT MATERIALS TECHNOLOGY

DUT: Dipole 1900.0 MHz; Type: D1900V2 - SN5d149

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 = 50.7; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 04/01/2022; Ambient Temp: 21.9°C; Tissue Temp: 22.8°C

Probe: EX3DV4 - SN7410; ConvF:(7.7,7.7,7.7); 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 V16.0.0.116

1900 MHz System Verification at 20 dBm (100 mW)

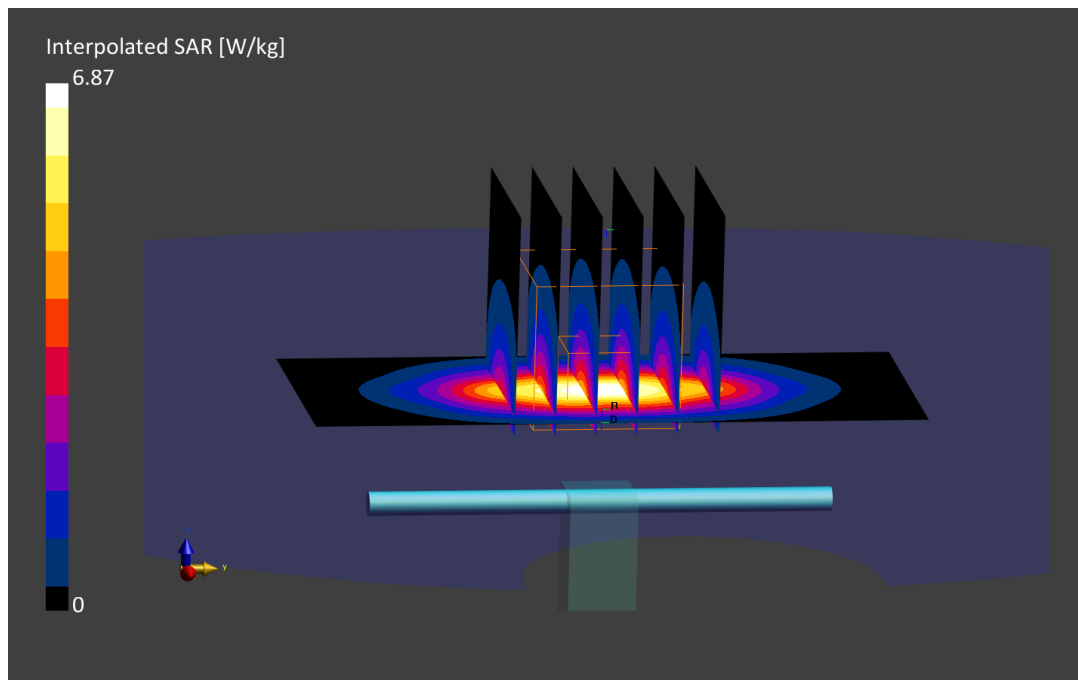
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 6.87 W/kg

SAR(1 g) = 3.76 W/kg

Deviation (1 g) = -6.93%



ELEMENT MATERIALS TECHNOLOGY

DUT: Dipole 1900.0 MHz; Type: D1900V2 - SN5d149

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 = 51.4; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 04/04/2022; Ambient Temp: 24.7°C; Tissue Temp: 21.9°C

Probe: EX3DV4 - SN7410; ConvF:(7.7,7.7,7.7); 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 V16.0.0.116

1900 MHz System Verification at 20 dBm (100 mW)

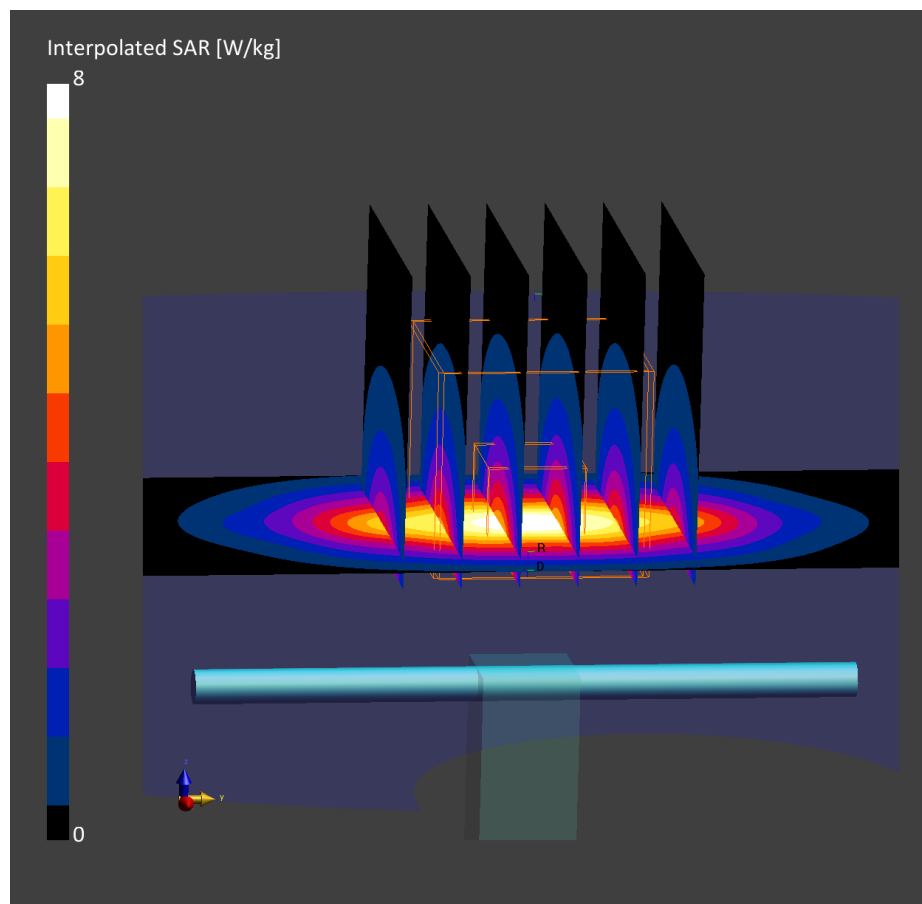
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 8.00 W/kg

SAR(1 g) = 4.36 W/kg

Deviation (1 g) = 7.92%



ELEMENT MATERIALS TECHNOLOGY

DUT: Dipole 1900.0 MHz; Type: D1900V2 - SN5d080

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

Medium: 835 Body; Medium parameters used:

f = 1900.0 MHz; cond = 1.59 S/m; perm = 53.8; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 04/13/2022; Ambient Temp: 24.8°C; Tissue Temp: 21.7°C

Probe: EX3DV4 - SN7713; ConvF:(8.17,8.17,8.17); Calibrated: 2022-02-04

Sensor-Surface: 1.4mm (All points)

Electronics: DAE4 Sn1530; Calibrated: 2022-01-12

Phantom: Twin-SAM V8.0; Serial: 1978

Measurement SW: DASY Module SAR V16.0.0.116

1900 MHz System Verification at 20 dBm (100 mW)

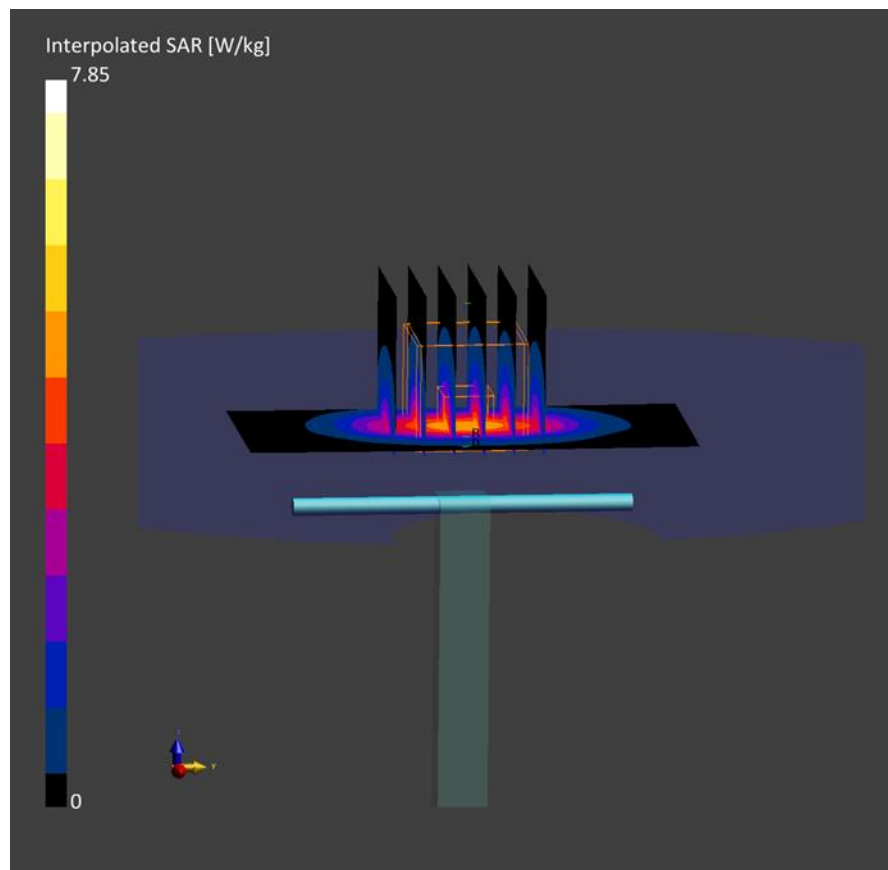
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 7.85 W/kg

SAR(1 g) = 4.24 W/kg

Deviation (1 g) = 4.18%



ELEMENT MATERIALS TECHNOLOGY

DUT: Dipole 1900.0 MHz; Type: D1900V2 - SN5d080

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 = 53.0; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 04/18/2022; Ambient Temp: 19.1°C; Tissue Temp: 19.6°C

Probe: EX3DV4 - SN7713; ConvF:(8.17,8.17,8.17); Calibrated: 2022-02-04

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

Electronics: DAE4 Sn1530; Calibrated: 2022-01-12

Phantom: Twin-SAM V8.0; Serial: 1978

Measurement SW: DASY Module SAR V16.0.2.136

1900 MHz System Verification at 20 dBm (100 mW)

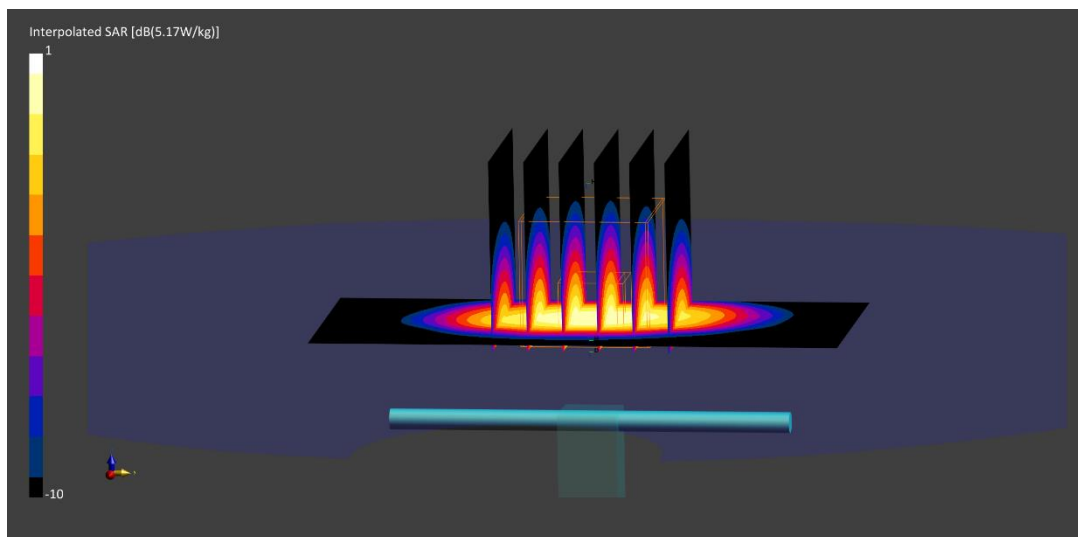
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 7.84 W/kg

SAR(1 g) = 4.26 W/kg

Deviation (1 g) = 4.67%



ELEMENT MATERIALS TECHNOLOGY

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 = 1.94 S/m; perm = 51.2; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 04/10/2022; Ambient Temp: 22.3°C; Tissue Temp: 21.8°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 V16.0.0.65

2450 MHz System Verification at 20 dBm (100 mW)

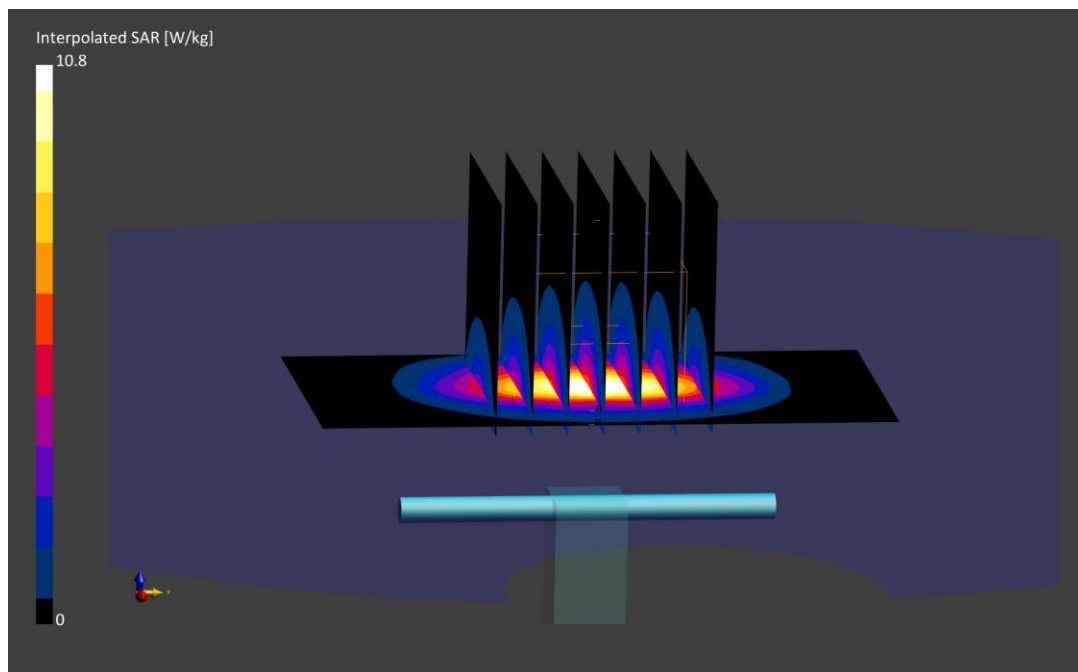
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 10.8 W/kg

SAR(1 g) = 4.94 W/kg

Deviation (1 g) = -5.00%



ELEMENT MATERIALS TECHNOLOGY

DUT: Dipole 2600.0 MHz; Type: D2600V2 - SN1004

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

Medium: 2450 Body; Medium parameters used:

f = 2600.0 MHz; cond = 2.13 S/m; perm = 50.7; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 04/10/2022; Ambient Temp: 22.3°C; Tissue Temp: 21.8°C

Probe: EX3DV4 - SN7552; ConvF:(7.28,7.28,7.28); 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 V16.0.0.65

2600 MHz System Verification at 20 dBm (100 mW)

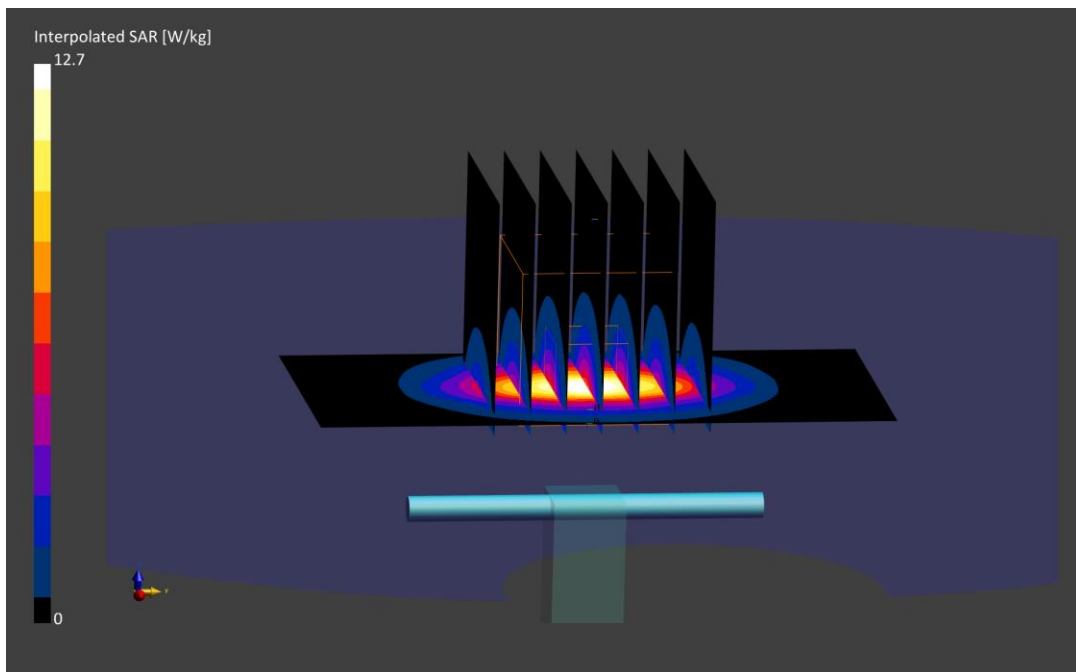
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 5.45 W/kg

Deviation (1 g) = -1.62%



ELEMENT MATERIALS TECHNOLOGY

DUT: Dipole 2600.0 MHz; Type: D2600V2 - SN1004

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

Medium: 2450 Body; Medium parameters used:

f = 2600.0 MHz; cond = 2.20 S/m; perm = 50.6; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 04/25/2022; Ambient Temp: 22.9°C; Tissue Temp: 20.7°C

Probe: EX3DV4 - SN7409; ConvF:(7.24,7.24,7.24); Calibrated: 2021-06-21

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

Electronics: DAE4 Sn1334; Calibrated: 2021-06-15

Phantom: Twin-SAM V5.0; Serial: 1759

Measurement SW: DASY Module SAR V16.0.0.116

2600 MHz System Verification at 20 dBm (100 mW)

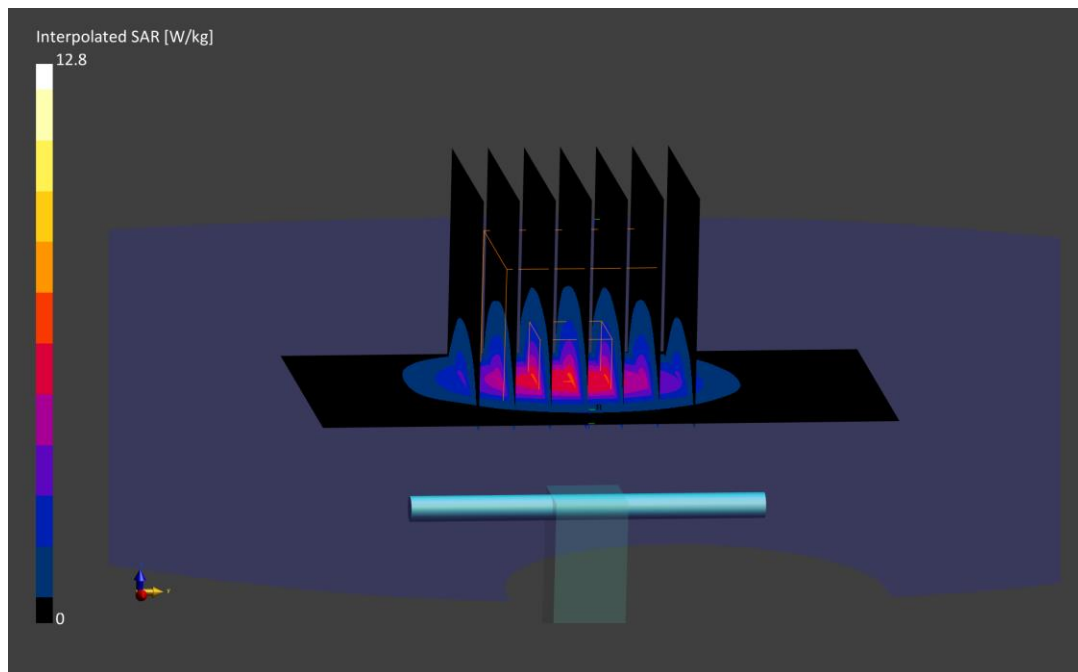
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 12.8 W/kg

SAR(1 g) = 5.55 W/kg; SAR(10 g) = 2.41 W/kg

Deviation (1 g) = 0.18%; Deviation (10 g) = -2.82%;



ELEMENT MATERIALS TECHNOLOGY

DUT: Dipole 3500.0 MHz; Type: D3500V2 - SN1097

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

Medium: 3600 Body; Medium parameters used:

f = 3500.0 MHz; cond = 3.18 S/m; perm = 50.0; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 04/06/2022; Ambient Temp: 21.0°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN7661; ConvF:(6.7,6.7,6.7); Calibrated: 2021-06-28

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

Electronics: DAE4 Sn1450; Calibrated: 2021-08-16

Phantom: Twin-SAM V5.0; Serial: 1692rightback

Measurement SW: DASY Module SAR V16.0.0.116

3500 MHz System Verification at 20 dBm (100 mW)

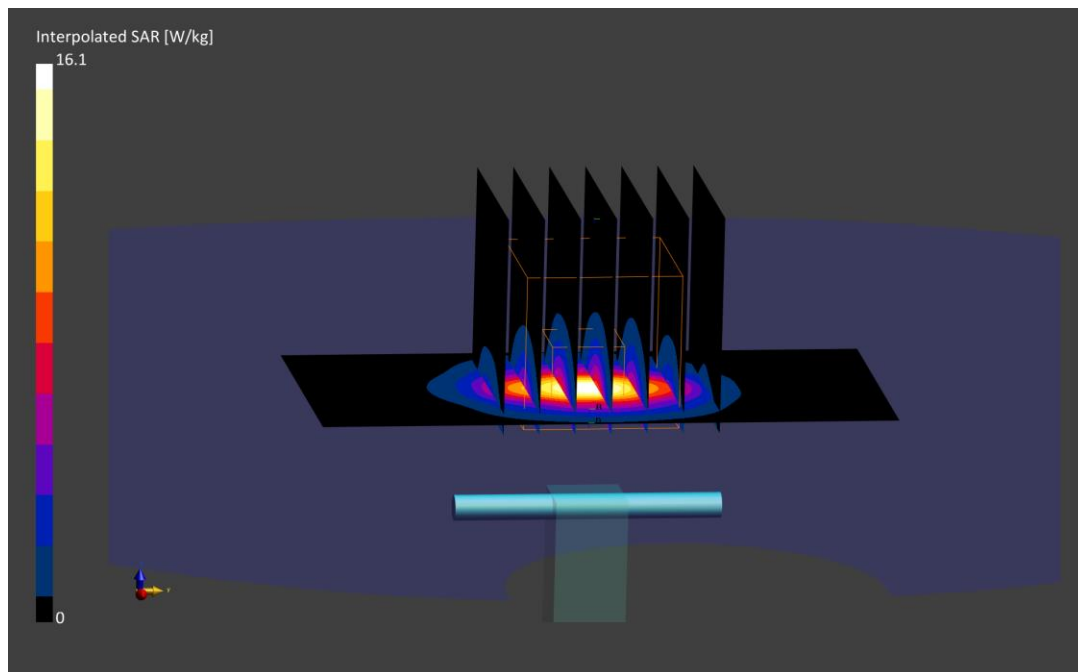
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 6.40 W/kg

Deviation (1 g) = -0.31%



ELEMENT MATERIALS TECHNOLOGY

DUT: Dipole 3700.0 MHz; Type: D3700V2 - SN1018

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

Medium: 3600 Body; Medium parameters used:

f = 3700.0 MHz; cond = 3.41 S/m; perm = 49.6; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 04/06/2022; Ambient Temp: 21.0°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN7661; ConvF:(6.66,6.66,6.66); Calibrated: 2021-06-28

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

Electronics: DAE4 Sn1450; Calibrated: 2021-08-16

Phantom: Twin-SAM V5.0; Serial: 1692rightback

Measurement SW: DASY Module SAR V16.0.0.116

3700 MHz System Verification at 20 dBm (100 mW)

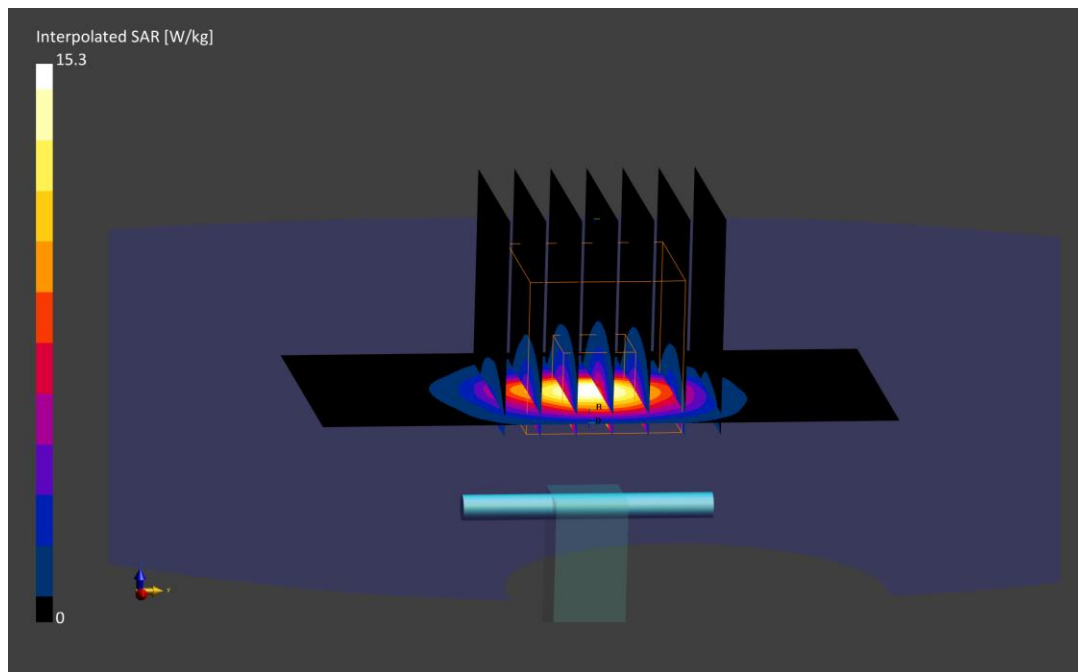
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 15.3 W/kg

SAR(1 g) = 5.96 W/kg

Deviation (1 g) = -6.14%



ELEMENT MATERIALS TECHNOLOGY

DUT: Dipole 3700.0 MHz; Type: D3700V2 - SN1018

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

Medium: 3600 Body; Medium parameters used:

f = 3700.0 MHz; cond = 3.41 S/m; perm = 49.6; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 04/11/2022; Ambient Temp: 21.0°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7661; ConvF:(6.66,6.66,6.66); Calibrated: 2021-06-28

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

Electronics: DAE4 Sn1450; Calibrated: 2021-08-16

Phantom: Twin-SAM V5.0; Serial: 1692rightback

Measurement SW: DASY Module SAR V16.0.2.136

3700 MHz System Verification at 20 dBm (100 mW)

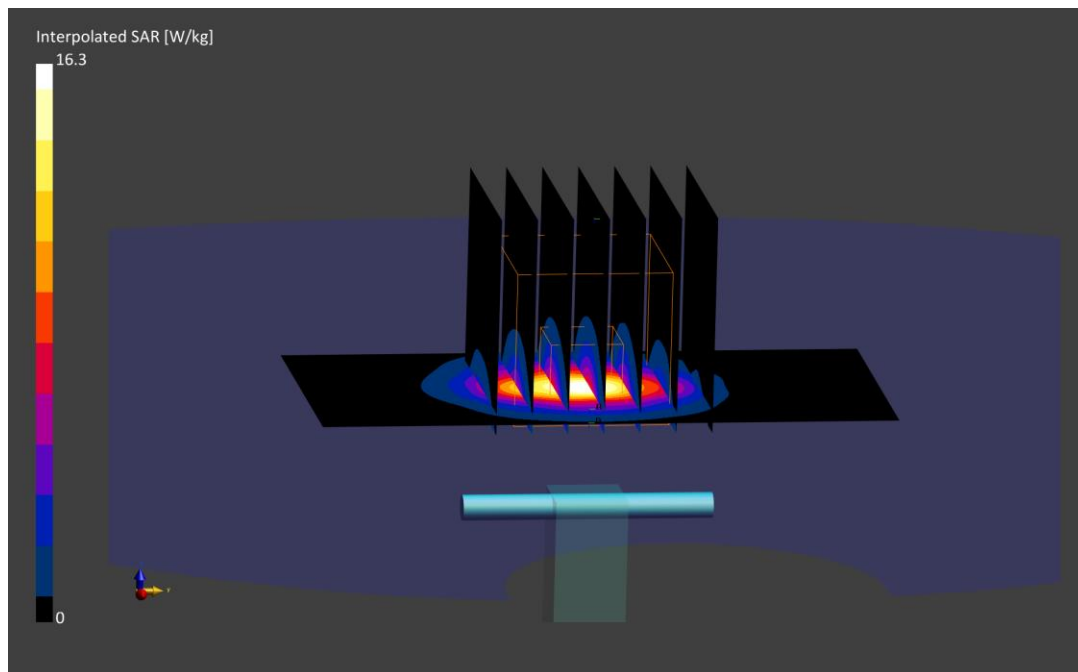
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 16.3 W/kg

SAR(10 g) = 2.26 W/kg

Deviation (10 g) = 0.44%



ELEMENT MATERIALS TECHNOLOGY

DUT: Dipole 3900.0 MHz; Type: D3900V2 - SN1073

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

Medium: 3600 Body; Medium parameters used:

f = 3900.0 MHz; cond = 3.65 S/m; perm = 49.2; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 04/06/2022; Ambient Temp: 21.0°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN7661; ConvF:(6.51,6.51,6.51); Calibrated: 2021-06-28

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

Electronics: DAE4 Sn1450; Calibrated: 2021-08-16

Phantom: Twin-SAM V5.0; Serial: 1692rightback

Measurement SW: DASY Module SAR V16.0.0.116

3900 MHz System Verification at 20 dBm (100 mW)

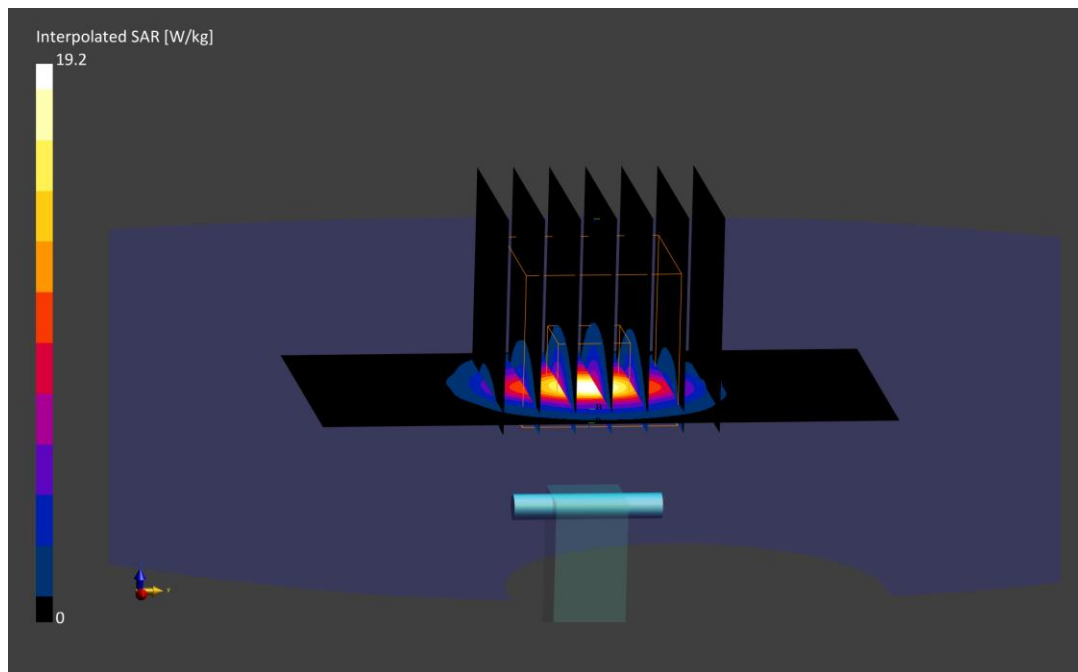
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 19.2 W/kg

SAR(1 g) = 6.67 W/kg

Deviation (1 g) = 3.73%



ELEMENT MATERIALS TECHNOLOGY

DUT: Dipole 3900.0 MHz; Type: D3900V2 - SN1073

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

Medium: 3600 Body; Medium parameters used:

f = 3900.0 MHz; cond = 3.65 S/m; perm = 49.2; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 04/11/2022; Ambient Temp: 21.0°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7661; ConvF:(6.51,6.51,6.51); Calibrated: 2021-06-28

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

Electronics: DAE4 Sn1450; Calibrated: 2021-08-16

Phantom: Twin-SAM V5.0; Serial: 1692rightback

Measurement SW: DASY Module SAR V16.0.2.136

3900 MHz System Verification at 20 dBm (100 mW)

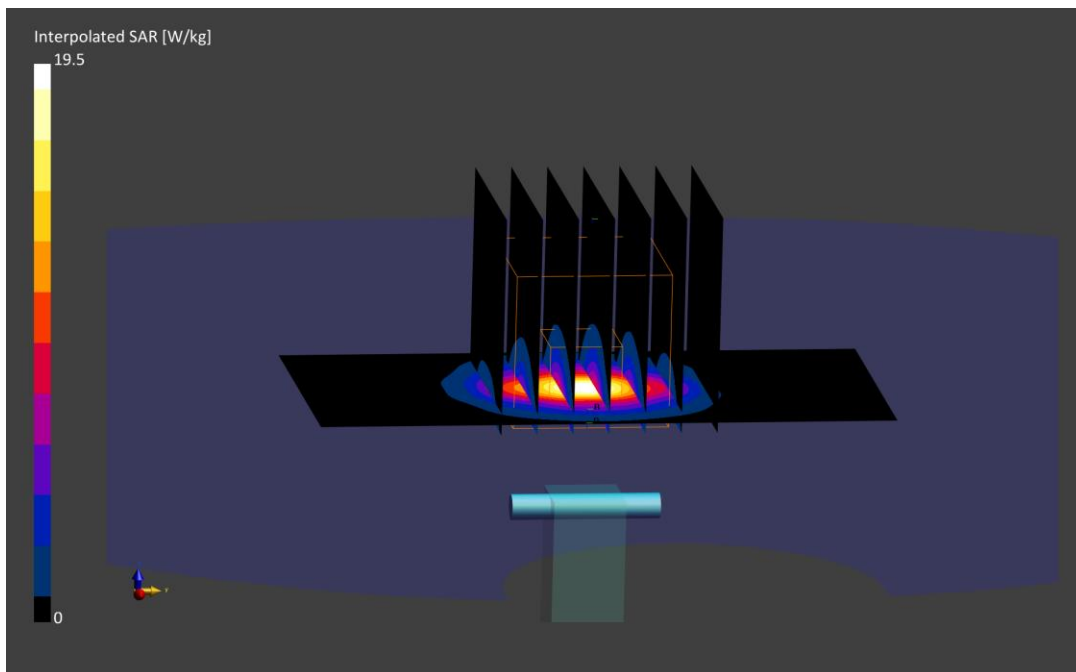
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 19.5 W/kg

SAR(10 g) = 2.39 W/kg

Deviation (10 g) = 8.64%



ELEMENT MATERIALS TECHNOLOGY

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 = 5.40 S/m; perm = 47.0; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 04/17/2022; Ambient Temp: 22.3°C; Tissue Temp: 21.3°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)

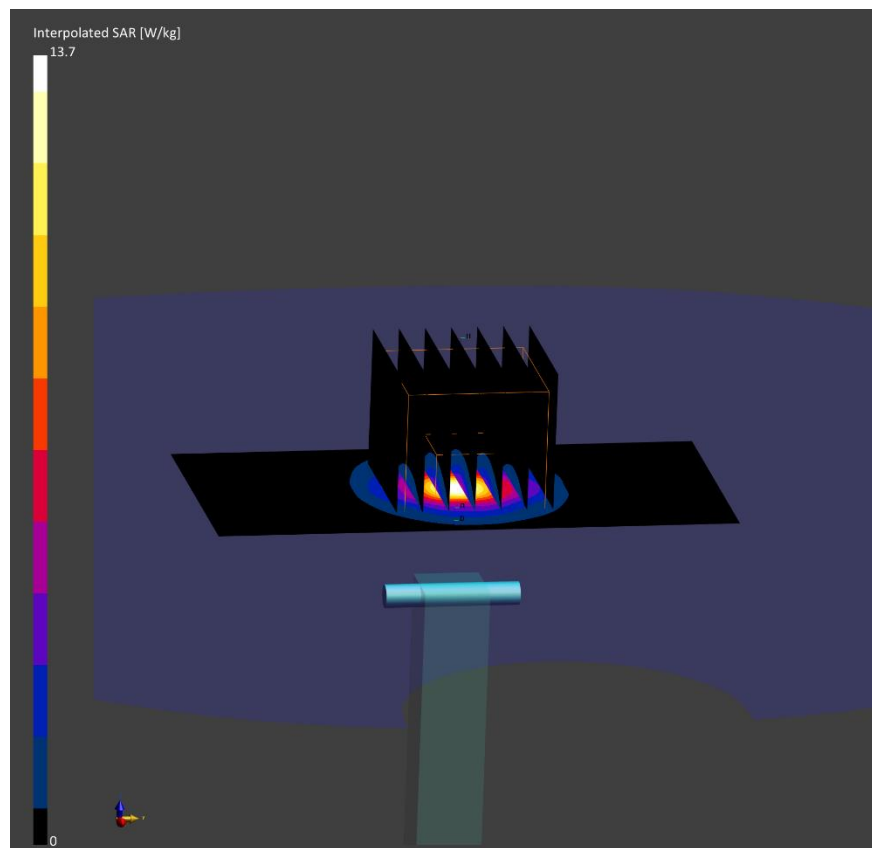
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 13.7 W/kg

SAR(10 g) = 1.01 W/kg

Deviation (10 g) = -1.94%;



ELEMENT MATERIALS TECHNOLOGY

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 = 5.91 S/m; perm = 46.5; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 04/17/2022; Ambient Temp: 22.3°C; Tissue Temp: 21.3°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)

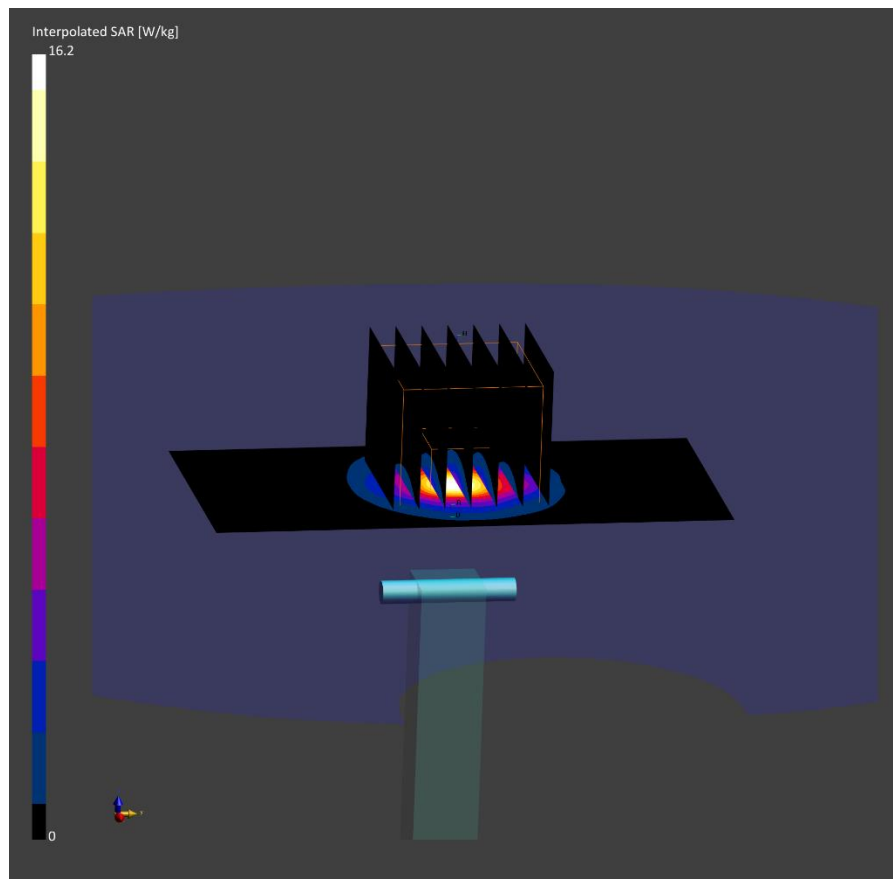
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 16.2 W/kg

SAR(10 g) = 1.09 W/kg

Deviation (10 g) = 2.83%;



ELEMENT MATERIALS TECHNOLOGY

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 = 6.12 S/m; perm = 46.3; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 04/17/2022; Ambient Temp: 22.3°C; Tissue Temp: 21.3°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) = 15.8 W/kg

SAR(10 g) = 1.05 W/kg

Deviation (10 g) = 1.45%;

