

APPENDIX B: SAR DIPOLE VERIFICATION PLOTS

ELEMENT

DUT: Dipole 750.0 MHz; Type: D750V3 - SN1161

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

Medium: 750 Body; Medium parameters used:

f = 750.0 MHz; cond = 0.955 S/m; perm = 55.7; density = 1000 kg/m³

Phantom Section: Flat; Space: 15 mm

Test Date: 04/10/2023; Ambient Temp: 23.1°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN7570; ConvF:(10.26,10.26,10.26); Calibrated: 2023-01-11

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

Electronics: DAE4 Sn1558; Calibrated: 2023-01-17

Phantom: Twin-SAM V8.0; Serial: 2060

Measurement SW: DASY Module SAR V16.2.0.1425

750 MHz System Verification at 23 dBm (200 mW)

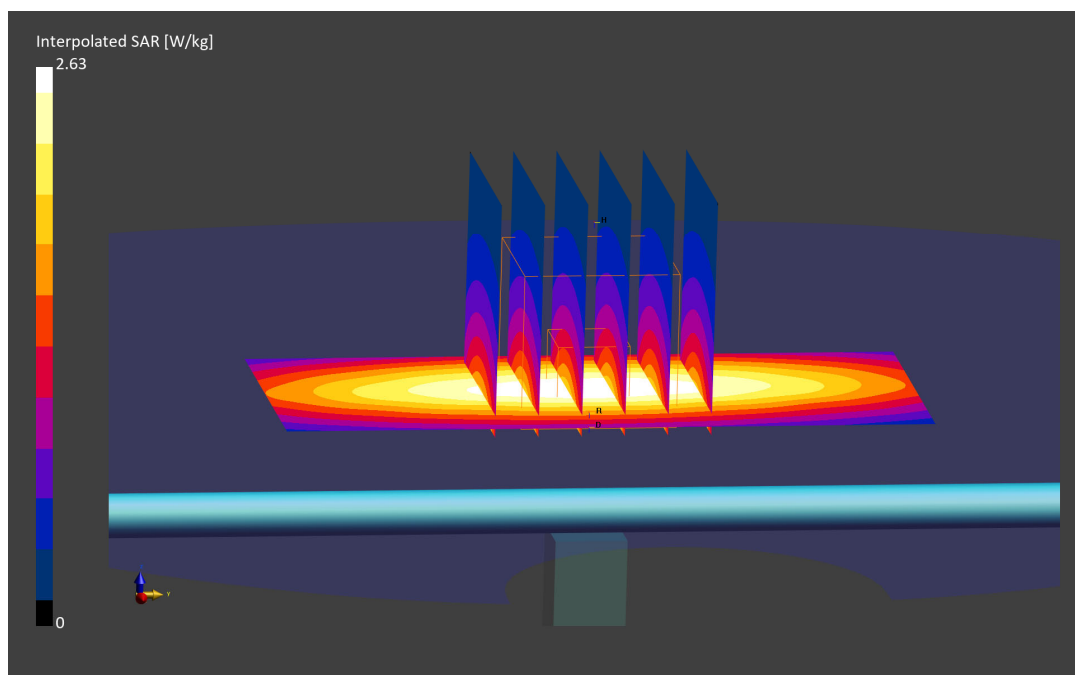
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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

Peak SAR (extrapolated) = 2.63 W/kg

SAR(1 g) = 1.69 W/kg; SAR(10 g) = 1.13 W/kg

Deviation (1 g) = -3.87%; Deviation (10 g) = -3.25%;



ELEMENT

DUT: Dipole 835.0 MHz; Type: D835V2 - SN4d132

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

Medium: 835 Body; Medium parameters used:

f = 835.0 MHz; cond = 0.945 S/m; perm = 55.9; density = 1000 kg/m³

Phantom Section: Flat; Space: 15 mm

Test Date: 04/07/2023; Ambient Temp: 22.3°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN7570; ConvF:(9.94,9.94,9.94); Calibrated: 2023-01-11

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

Electronics: DAE4 Sn1558; Calibrated: 2023-01-17

Phantom: Twin-SAM V8.0; Serial: 2060

Measurement SW: DASY Module SAR V16.2.0.1425

835 MHz System Verification at 23 dBm (200 mW)

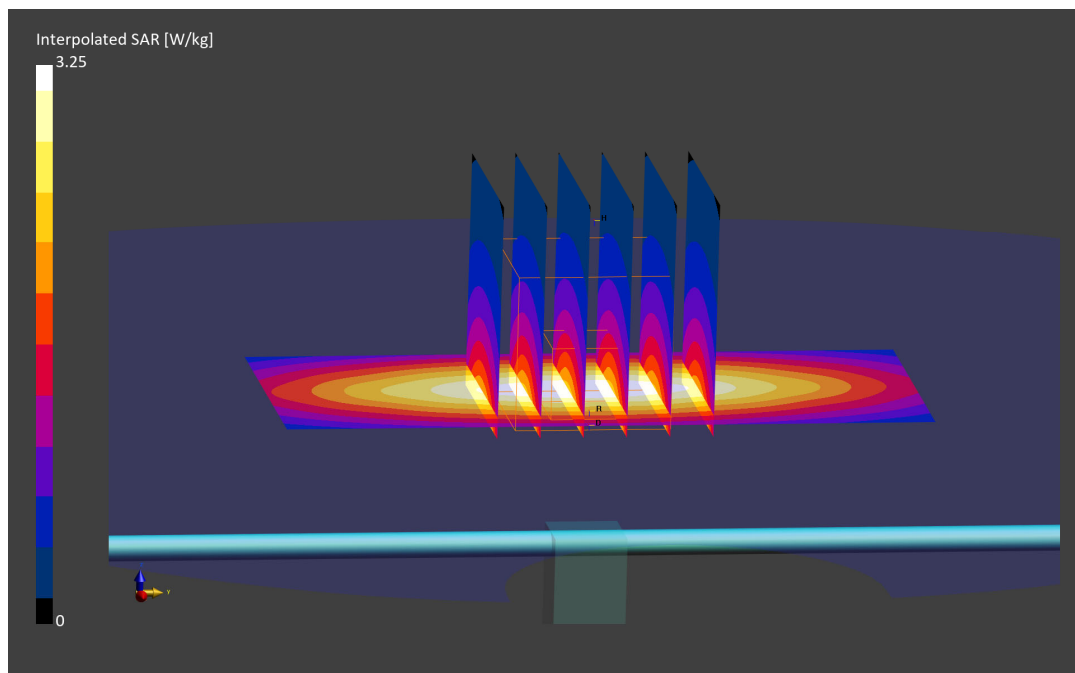
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 3.25 W/kg

SAR(1 g) = 2.04 W/kg; SAR(10 g) = 1.34 W/kg

Deviation (1 g) = 3.98%; Deviation (10 g) = 4.04%;



ELEMENT

DUT: Dipole 1750.0 MHz; Type: D1765V2 - SN1008

Communication System: UID: 0, CW; Frequency: 1750.0 MHz
Medium: 1900 Body; Medium parameters used:
f = 1750.0 MHz; cond = 1.48 S/m; perm = 52.3; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 04/12/2023; Ambient Temp: 22.3°C; Tissue Temp: 19.5°C

Probe: EX3DV4 - SN7570; ConvF:(8.54,8.54,8.54); Calibrated: 2023-01-11
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1558; Calibrated: 2023-01-17
Phantom: Twin-SAM V8.0; Serial: 2060
Measurement SW: DASY Module SAR V16.2.0.1425

1750 MHz System Verification at 20 dBm (100 mW)

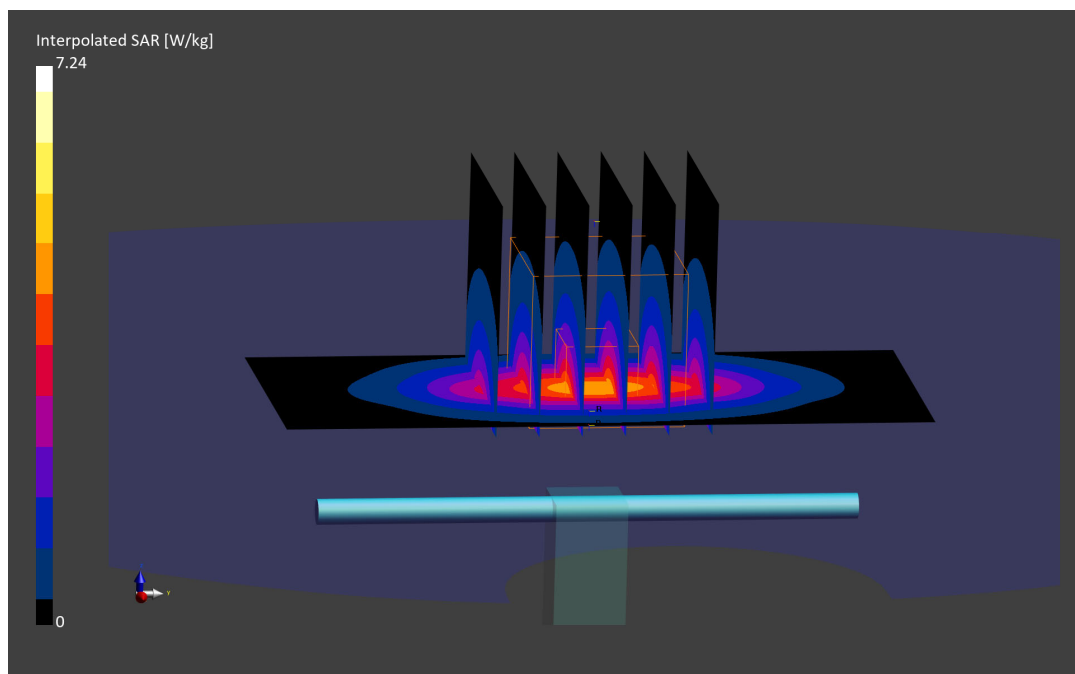
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 7.24 W/kg

SAR(1 g) = 3.80 W/kg; SAR(10 g) = 2.01 W/kg

Deviation (1 g) = 0.53%; Deviation (10 g) = 1.01%;



ELEMENT

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 = 1.59 S/m; perm = 52.1; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 04/12/2023; Ambient Temp: 22.3°C; Tissue Temp: 19.5°C

Probe: EX3DV4 - SN7570; ConvF:(8.18,8.18,8.18); Calibrated: 2023-01-11

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

Electronics: DAE4 Sn1558; Calibrated: 2023-01-17

Phantom: Twin-SAM V8.0; Serial: 2060

Measurement SW: DASY Module SAR V16.2.0.1425

1900 MHz System Verification at 20 dBm (100 mW)

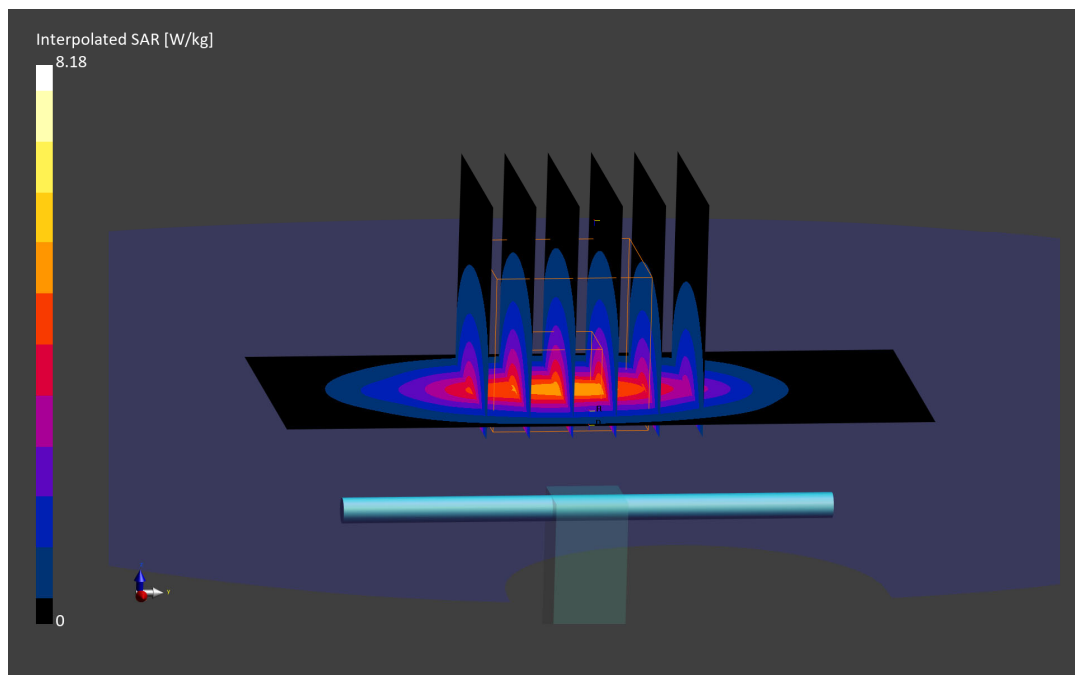
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 8.17 W/kg

SAR(1 g) = 4.27 W/kg; SAR(10 g) = 2.21 W/kg

Deviation (1 g) = 5.69%; Deviation (10 g) = 4.74%;



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 = 2.04 S/m; perm = 53.4; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 04/07/2023; Ambient Temp: 22.3°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN7570; ConvF:(7.69,7.69,7.69); Calibrated: 2023-01-11

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

Electronics: DAE4 Sn1558; Calibrated: 2023-01-17

Phantom: Twin-SAM V8.0; Serial: 2060

Measurement SW: DASY Module SAR V16.2.0.1425

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) = 10.3 W/kg

SAR(1 g) = 4.85 W/kg; SAR(10 g) = 2.24 W/kg

Deviation (1 g) = -3.58%; Deviation (10 g) = -5.49%;

