

**APPENDIX B: SAR DIPOLE VERIFICATION PLOTS**

# ELEMENT

**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 = 1.54 S/m; perm = 51.0; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 12/08/2022; Ambient Temp: 23.1°C; Tissue Temp: 20.4°C

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

## 1750 MHz System Verification at 20 dBm (100 mW)

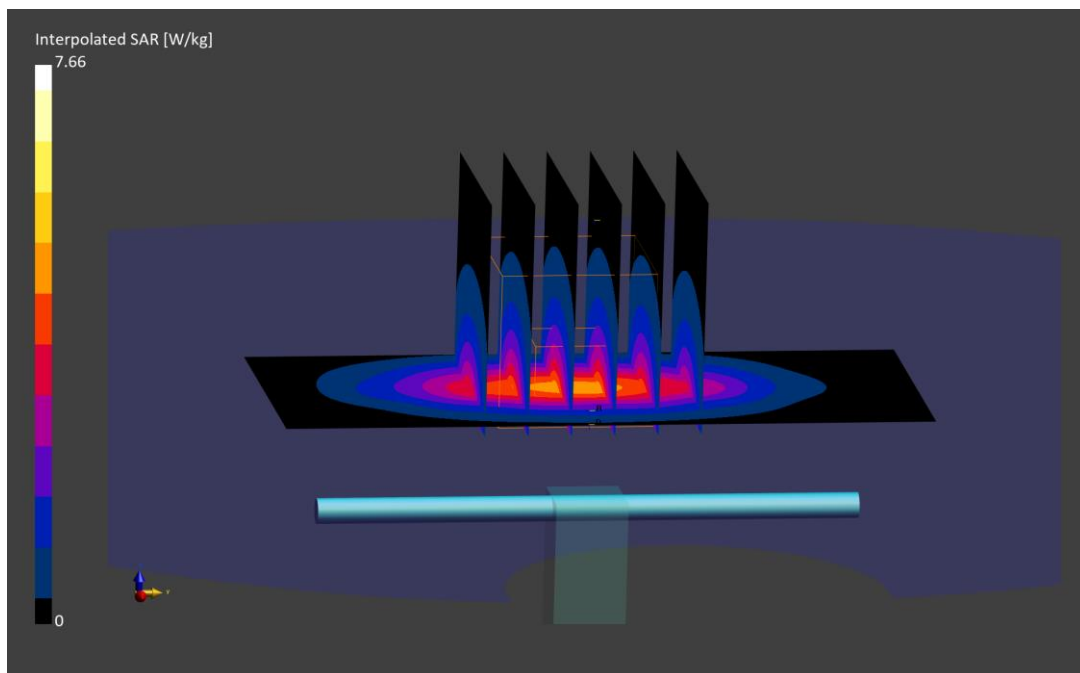
**Area Scan (40.0 x 90.0):** Measurement grid: dx=10.0 mm, dy=15.0 mm

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

Peak SAR (extrapolated) = 7.66 W/kg

**SAR(1 g) = 3.94 W/kg; SAR(10 g) = 2.08 W/kg**

Deviation (1 g) = 4.23%; Deviation (10 g) = 4.00%



# ELEMENT

**DUT: Dipole 1750.0 MHz; Type: D1750V2 - SN1148**

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 = 53.3; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 12/11/2022; Ambient Temp: 22.9°C; Tissue Temp: 20.4°C

Probe: EX3DV4 - SN7410; ConvF:(8.14,8.14,8.14); Calibrated: 2022-07-19  
Sensor-Surface: 1.4mm (VMS + 6p)  
Electronics: DAE4 Sn1583; Calibrated: 2022-07-18  
Phantom: Twin-SAM V8.0; Serial: 1966  
Measurement SW: DASY Module SAR V16.2.0.1425

## 1750 MHz System Verification at 20 dBm (100 mW)

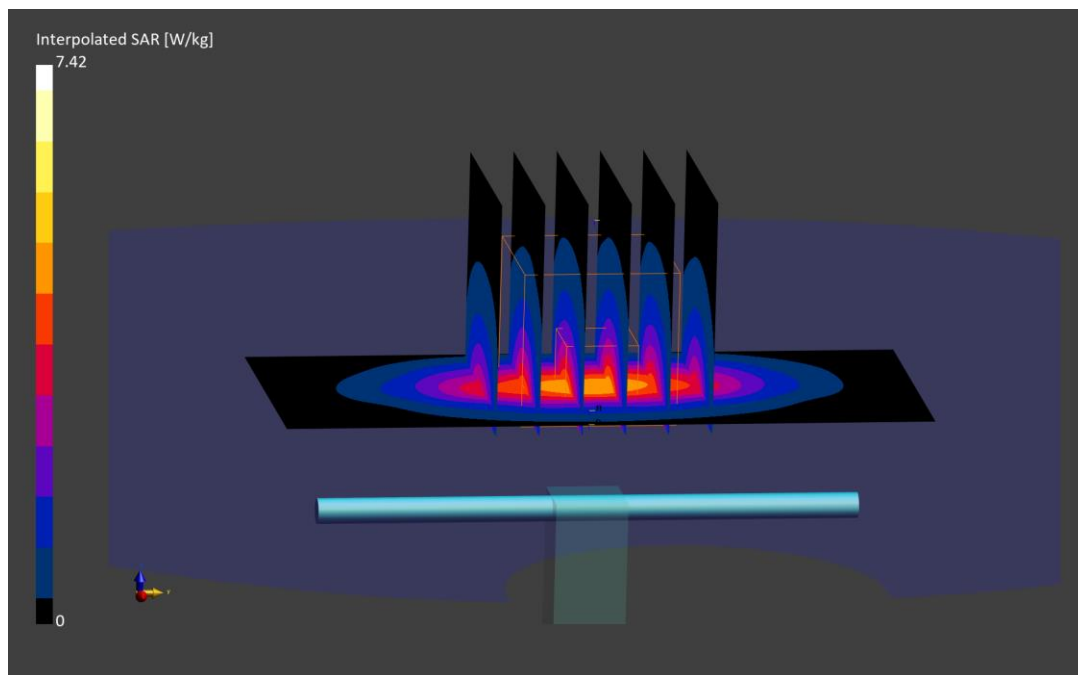
**Area Scan (40.0 x 90.0):** Measurement grid: dx=10.0 mm, dy=15.0 mm

**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) = 7.43 W/kg

**SAR(1 g) = 3.94 W/kg; SAR(10 g) = 2.09 W/kg**

Deviation (1 g) = 6.20%; Deviation (10 g) = 6.63%



# ELEMENT

**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 = 1.52 S/m; perm = 53.7; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 12/08/2022; Ambient Temp: 24.0°C; Tissue Temp: 23.3°C

Probe: EX3DV4 - SN7488; ConvF:(8.33,8.33,8.33); Calibrated: 2022-02-21  
Sensor-Surface: 1.4mm (VMS + 6p)  
Electronics: DAE4 Sn1415; Calibrated: 2022-02-23  
Phantom: Twin-SAM V8.0; Serial: 2065  
Measurement SW: DASY Module SAR V16.2.0.1425

## 1900 MHz System Verification at 20 dBm (100 mW)

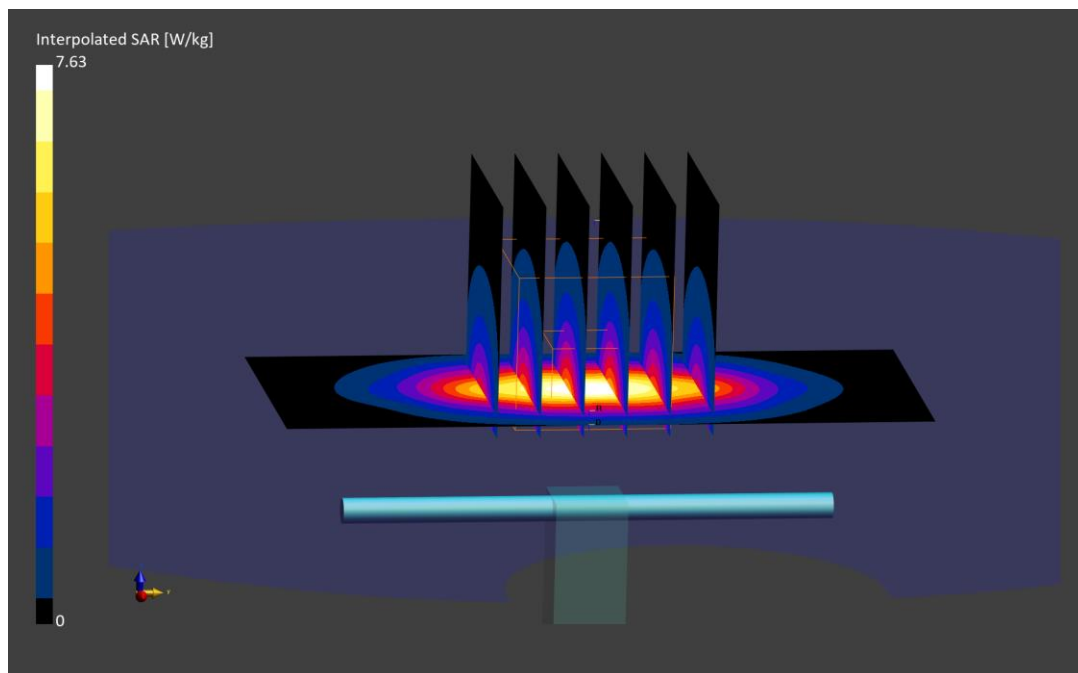
**Area Scan (40.0 x 90.0):** Measurement grid: dx=10.0 mm, dy=15.0 mm

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

Peak SAR (extrapolated) = 7.63 W/kg

**SAR(1 g) = 4.14 W/kg; SAR(10 g) = 2.16 W/kg**

Deviation (1 g) = 1.72%; Deviation (10 g) = 1.41%



# ELEMENT

**DUT: Dipole 2300.0 MHz; Type: D2300V2 - SN1073**

Communication System: UID: 0, CW; Frequency: 2300.0 MHz  
Medium: 2450 Body; Medium parameters used:  
f = 2300.0 MHz; cond = 1.73 S/m; perm = 54.2; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 12/09/2022; Ambient Temp: 23.0°C; Tissue Temp: 23.2°C

Probe: EX3DV4 - SN7409; ConvF:(7.47,7.47,7.47); Calibrated: 2022-06-16  
Sensor-Surface: 1.4mm (VMS + 6p)  
Electronics: DAE4 Sn1334; Calibrated: 2022-06-14  
Phantom: Twin-SAM V5.0; Serial: 1792  
Measurement SW: DASY Module SAR V16.2.0.1425

## 2300 MHz System Verification at 20 dBm (100 mW)

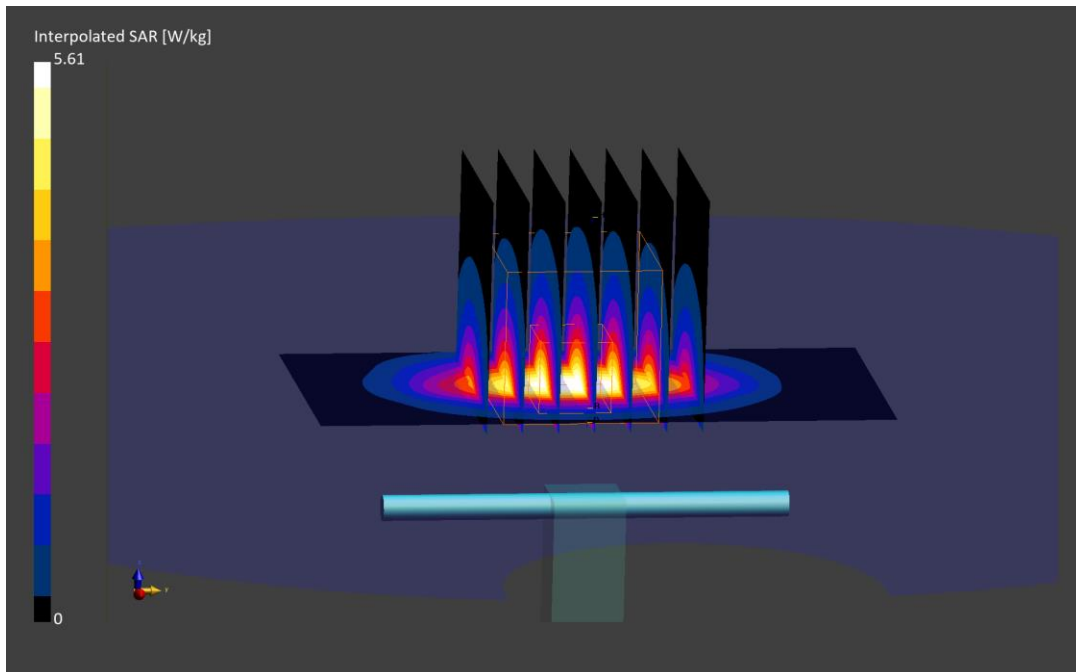
**Area Scan (40.0 x 80.0):** Measurement grid: dx=10.0 mm, dy=10.0 mm

**Zoom Scan (30.0 x 30.0 x 30.0):** Measurement grid: dx=5.0 mm, dy=5.0 mm, dz=1.5 mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 9.12 W/kg

**SAR(1 g) = 4.54 W/kg; SAR(10 g) = 2.18 W/kg**

Deviation (1 g) = -5.61%; Deviation (10 g) = -7.63%



# 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 = 1.92 S/m; perm = 53.7; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 12/09/2022; Ambient Temp: 23.0°C; Tissue Temp: 23.2°C

Probe: EX3DV4 - SN7409; ConvF:(7.41,7.41,7.41); Calibrated: 2022-06-16  
Sensor-Surface: 1.4mm (VMS + 6p)  
Electronics: DAE4 Sn1334; Calibrated: 2022-06-14  
Phantom: Twin-SAM V5.0; Serial: 1792  
Measurement SW: DASY Module SAR V16.2.0.1425

## 2450 MHz System Verification at 20 dBm (100 mW)

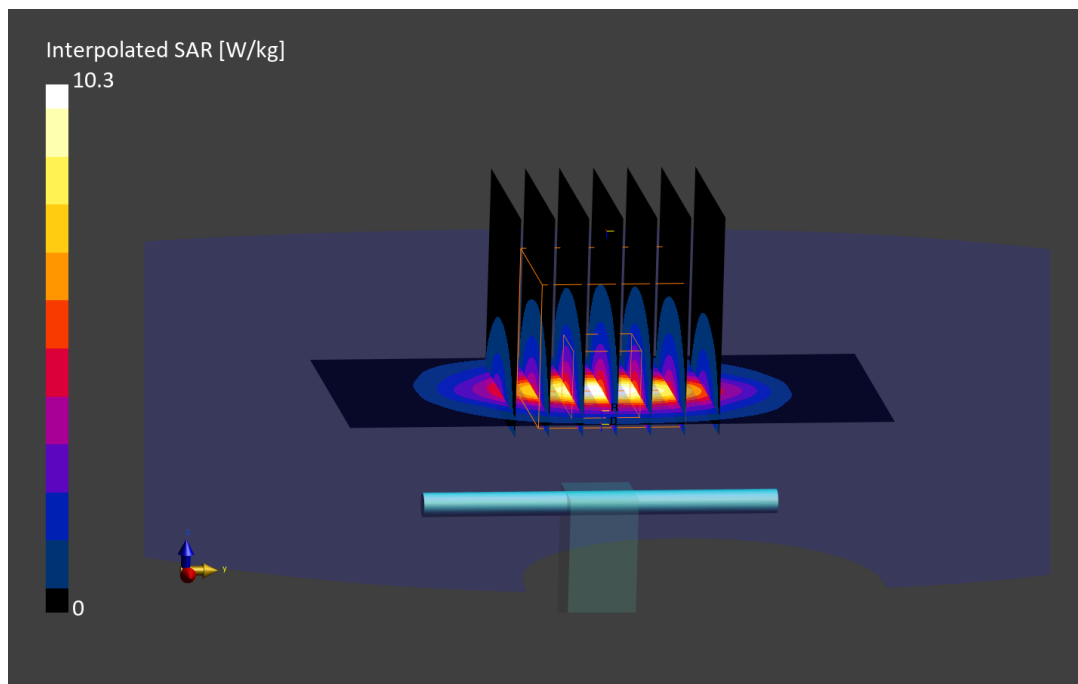
**Area Scan (40.0 x 80.0):** Measurement grid: dx=10.0 mm, dy=10.0 mm

**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) = 4.82 W/kg; SAR(10 g) = 2.23 W/kg**

Deviation (1 g) = -7.31%; Deviation (10 g) = -9.72%



# ELEMENT

**DUT: Dipole 2600.0 MHz; Type: D2600V2 - SN1064**

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 = 53.2; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 12/09/2022; Ambient Temp: 23.0°C; Tissue Temp: 23.2°C

Probe: EX3DV4 - SN7409; ConvF:(7.23,7.23,7.23); Calibrated: 2022-06-16  
Sensor-Surface: 1.4mm (VMS + 6p)  
Electronics: DAE4 Sn1334; Calibrated: 2022-06-14  
Phantom: Twin-SAM V5.0; Serial: 1792  
Measurement SW: DASY Module SAR V16.2.0.1425

## 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) = 11.4 W/kg

**SAR(1 g) = 5.22 W/kg; SAR(10 g) = 2.30 W/kg**

Deviation (1 g) = -4.40%; Deviation (10 g) = -5.74%

