

**APPENDIX B: SAR DIPOLE VERIFICATION PLOTS**

# ELEMENT

**DUT: Dipole 2450.0 MHz; Type: D2450V2 - SN750**

Communication System: UID: 0, CW; Frequency: 2450.0 MHz  
Medium: 2450 Head; Medium parameters used:  
f = 2450.0 MHz; cond = 1.82 S/m; perm = 38.2; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 10/19/2022; Ambient Temp: 20.3°C; Tissue Temp: 19.9°C

Probe: EX3DV4 - SN7546; ConvF:(7.36,7.36,7.36); Calibrated: 2022-04-22  
Sensor-Surface: 1.4mm (VMS + 6p)  
Electronics: DAE4 Sn1402; Calibrated: 2022-04-14  
Phantom: Twin-SAM V8.0; Serial: 2070  
Measurement SW: DASY Module SAR V16.2.0.1425

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

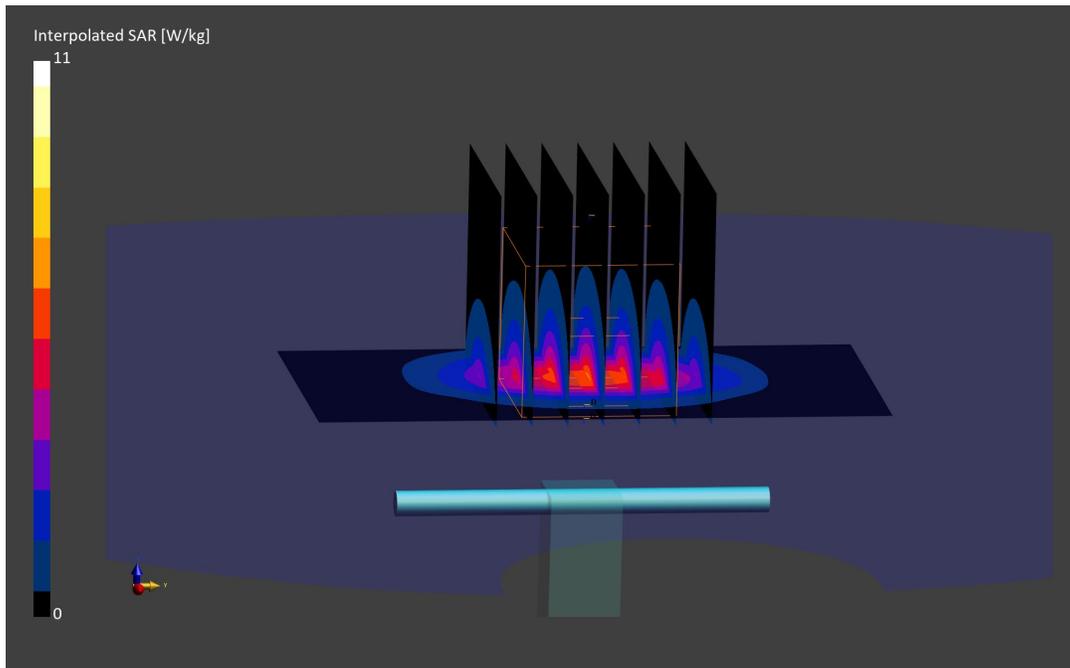
**Area Scan (40.0 x 80.0):** Measurement grid: dx=10.0 mm, dy=10.0 mm

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

Peak SAR (extrapolated) = 11.0 W/kg

**SAR(1 g) = 5.21 W/kg; SAR(10 g) = 2.42 W/kg**

Deviation (1 g) = -0.95%; Deviation (10 g) = -1.22%



# ELEMENT

**DUT: Dipole 2450.0 MHz; Type: D2450V2 - SN921**

Communication System: UID: 0, CW; Frequency: 2450.0 MHz  
Medium: 2450 Head; Medium parameters used:  
f = 2450.0 MHz; cond = 1.82 S/m; perm = 37.7; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 10/24/2022; Ambient Temp: 20.2°C; Tissue Temp: 20.0°C

Probe: EX3DV4 - SN7546; ConvF:(7.36,7.36,7.36); Calibrated: 2022-04-22  
Sensor-Surface: 1.4mm (VMS + 6p)  
Electronics: DAE4 Sn1402; Calibrated: 2022-04-14  
Phantom: Twin-SAM V8.0; Serial: 2070  
Measurement SW: DASY Module SAR V16.2.0.1425

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

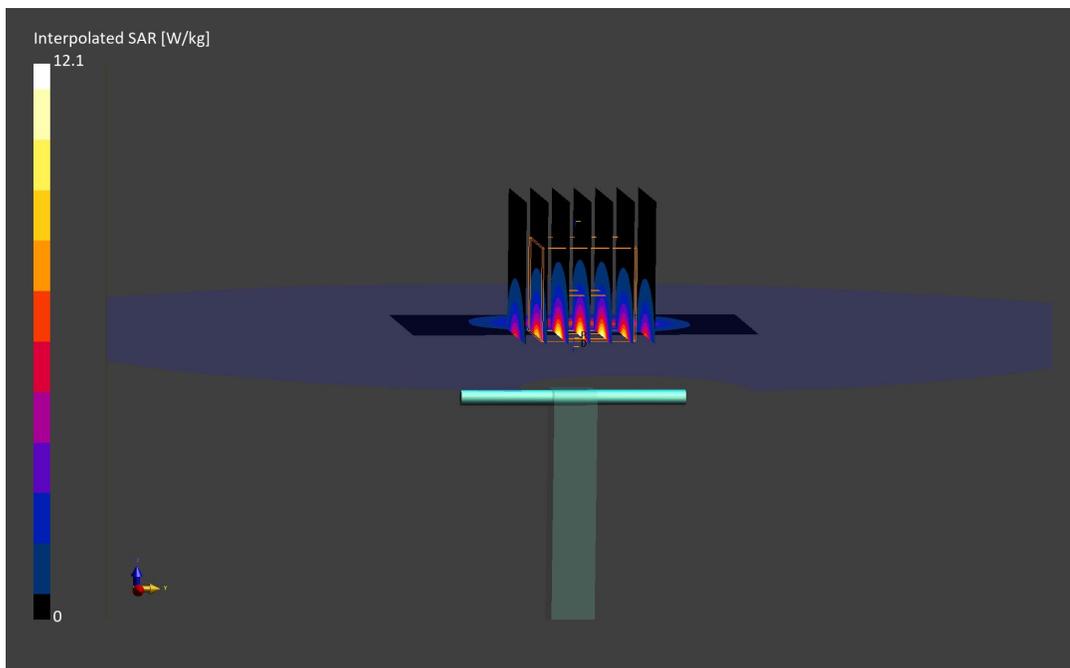
**Area Scan (40.0 x 80.0):** Measurement grid: dx=10.0 mm, dy=10.0 mm

**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) = 12.1 W/kg

**SAR(1 g) = 5.62 W/kg; SAR(10 g) = 2.61 W/kg**

Deviation (1 g) = 3.69%; Deviation (10 g) = 2.35%



# ELEMENT

**DUT: Dipole 2450.0 MHz; Type: D2450V2 - SN750**

Communication System: UID: 0, CW; Frequency: 2450.0 MHz  
Medium: 2450 Head; Medium parameters used:  
f = 2450.0 MHz; Cond = 1.83 S/m; perm = 37.9; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 10/26/2022; Ambient Temp: 21.2°C; Tissue Temp: 20.7°C

Probe: EX3DV4 - SN7546; ConvF:(7.36,7.36,7.36); Calibrated: 2022-04-22  
Sensor-Surface: 1.4mm (VMS + 6p)  
Electronics: DAE4 Sn1402; Calibrated: 2022-04-14  
Phantom: Twin-SAM V8.0; Serial: 2070  
Measurement SW: DASY Module SAR V16.2.0.1425

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

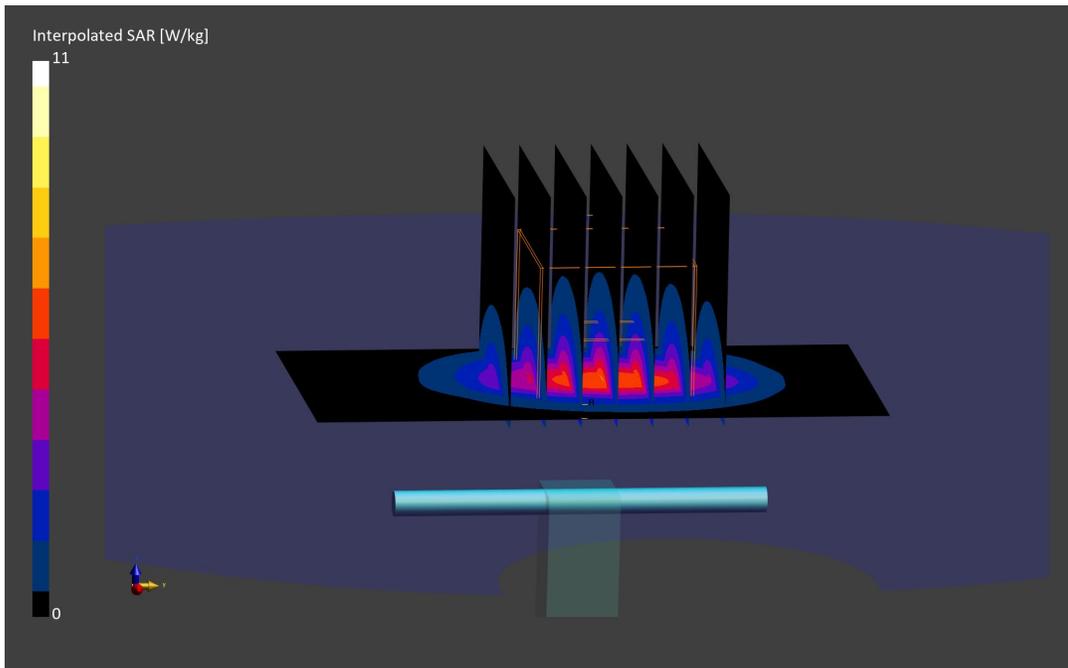
**Area Scan (40.0 x 80.0):** Measurement grid: dx=10.0 mm, dy=10.0 mm

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

Peak SAR (extrapolated) = 11.0 W/kg

**SAR (1 g) = 5.11 W/kg; SAR (10 g) = 2.37 W/kg**

Deviation (1 g) = -2.85%; Deviation (10 g) = -3.27%



# ELEMENT

**DUT: Dipole 3700.0 MHz; Type: D3700V2 - SN1097**

Communication System: UID: 0, CW; Frequency: 3700.0 MHz  
Medium: 3600 Head; Medium parameters used:  
f = 3700.0 MHz; cond = 3.11 S/m; perm = 38.6; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 10/27/2022; Ambient Temp: 21.5°C; Tissue Temp: 19.4°C

Probe: EX3DV4 - SN7639; ConvF:(7.39,7.39,7.39); Calibrated: 2021-11-16  
Sensor-Surface: 1.4mm (VMS + 6p)  
Electronics: DAE4 Sn1646; Calibrated: 2021-11-11  
Phantom: Twin-SAM V8.0; Serial: 1736  
Measurement SW: DASY Module SAR V16.2.0.1425

## 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) = 19.1 W/kg  
**SAR(1 g) = 6.98 W/kg; SAR(10 g) = 2.55 W/kg**  
Deviation (1 g) = 2.50%; Deviation (10 g) = 4.08%

