

## APPENDIX B: SAR DIPOLE VERIFICATION PLOTS

# 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 = 1.81 S/m; perm = 38.7; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 06/20/2023; Ambient Temp: 24.6°C; Tissue Temp: 22.9°C

Probe: EX3DV4 - SN7570; ConvF:(7.55,7.55,7.55); 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)

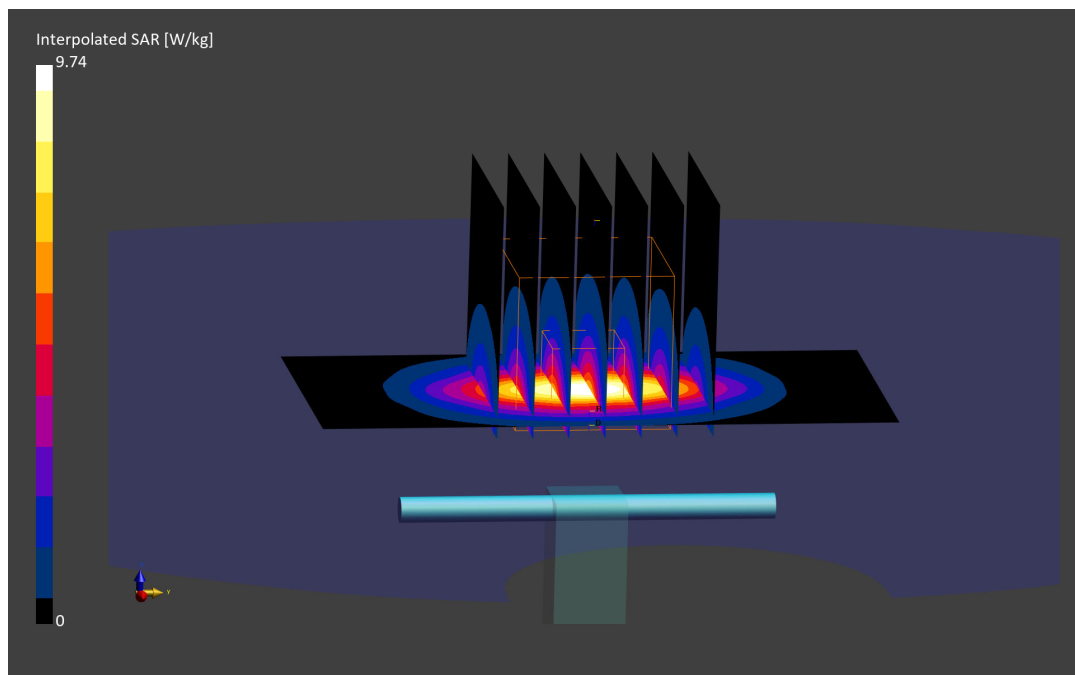
**Area Scan (40.0 x 80.0):** Measurement grid: dx=10.0 mm, dy=10.0 mm

**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) = 9.74 W/kg

**SAR(1 g) = 4.94 W/kg; SAR(10 g) = 2.33 W/kg**

Deviation (1 g) = -8.35%; Deviation (10 g) = -8.27%;



# ELEMENT

**DUT: Dipole 2450.0 MHz; Type: D2450V2 - SN945**

Communication System: UID: 0, CW; Frequency: 2450.0 MHz  
Medium: 2450 Head; Medium parameters used:  
f = 2450.0 MHz; cond = 1.84 S/m; perm = 39.5; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 06/21/2023; Ambient Temp: 19.7°C; Tissue Temp: 20.2°C

Probe: EX3DV4 - SN7565; ConvF:(7.08,7.08,7.08); Calibrated: 2023-01-12  
Sensor-Surface: 1.4mm (VMS + 6p)  
Electronics: DAE4 Sn1466; Calibrated: 2023-01-20  
Phantom: Twin-SAM V5.0; Serial: 1868  
Measurement SW: DASY Module SAR V16.2.0.1425

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

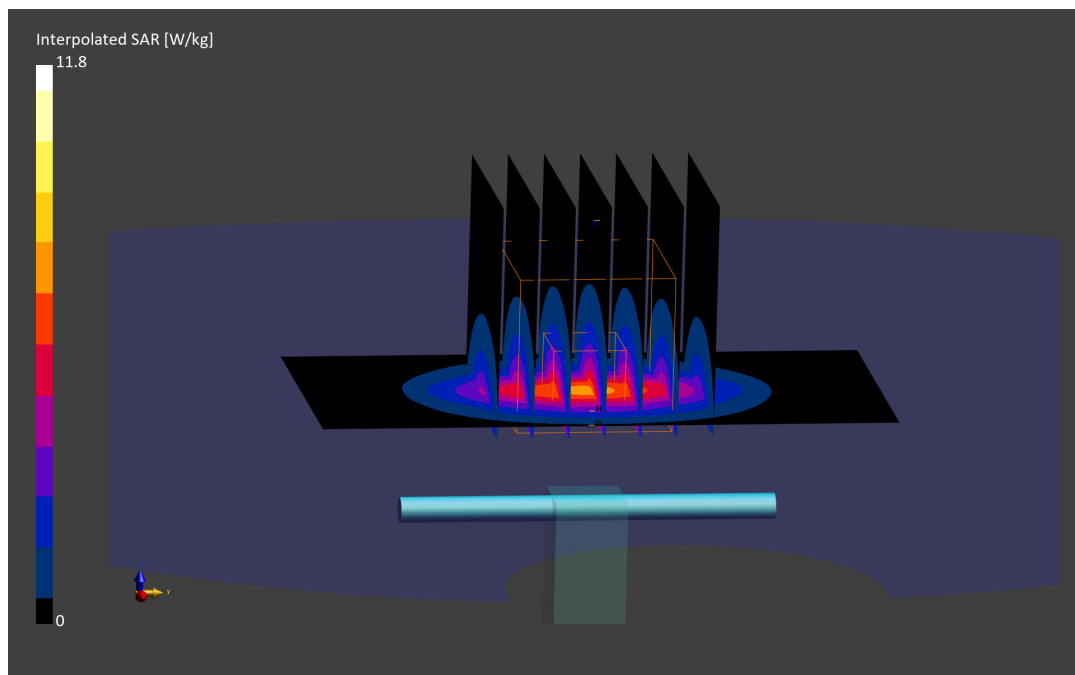
**Area Scan (40.0 x 80.0):** Measurement grid: dx=10.0 mm, dy=10.0 mm

**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) = 11.8 W/kg

**SAR(1 g) = 5.53 W/kg; SAR(10 g) = 2.54 W/kg**

Deviation (1 g) = 6.55%; Deviation (10 g) = 3.25%;



# ELEMENT

**DUT: Dipole 5250.0 MHz; Type: D5GHzV2 - SN1191**

Communication System: UID: 0, CW; Frequency: 5250.0 MHz  
Medium: 5200-5800 Head; Medium parameters used:  
f = 5250.0 MHz; cond = 4.75 S/m; perm = 36.2; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 05/30/2023; Ambient Temp: 21.1°C; Tissue Temp: 20.1°C

Probe: EX3DV4 - SN7417; ConvF:(5.61,5.61,5.61); Calibrated: 2023-02-08  
Sensor-Surface: 1.4mm (VMS + 6p)  
Electronics: DAE4 Sn665; Calibrated: 2023-02-15  
Phantom: Twin-SAM V5.0; Serial: 1757  
Measurement SW: DASY Module SAR V16.2.0.1425

## 5250 MHz System Verification at 17 dBm (50 mW)

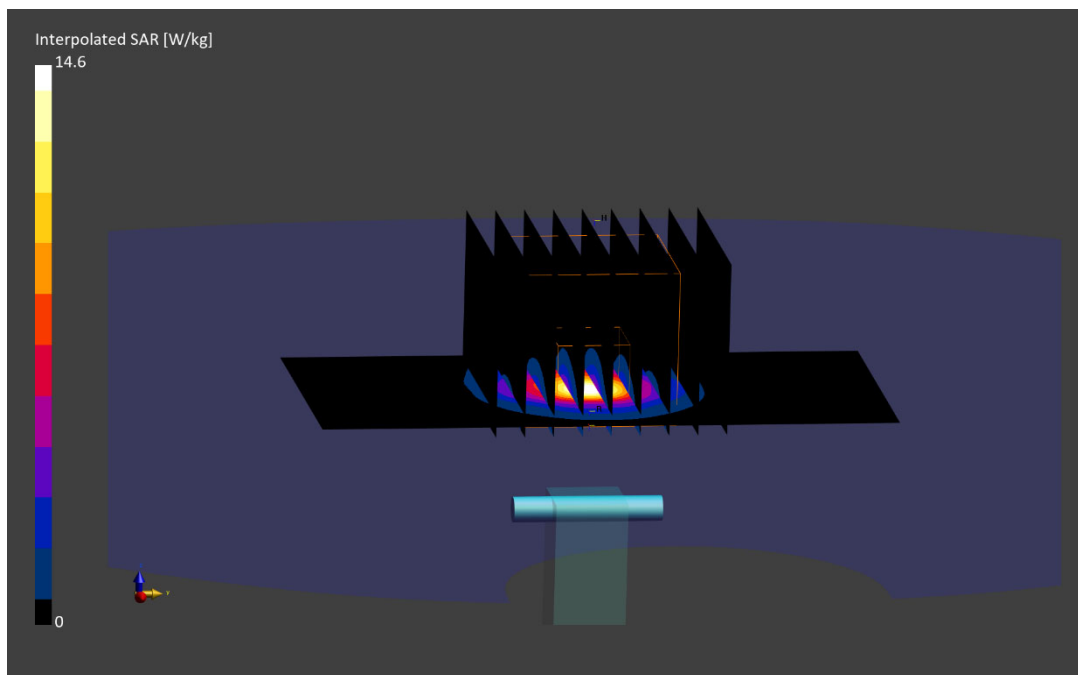
**Area Scan (40.0 x 80.0):** Measurement grid: dx=10.0 mm, dy=10.0 mm

**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) = 14.6 W/kg

**SAR(1 g) = 3.66 W/kg; SAR(10 g) = 1.04 W/kg**

Deviation (1 g) = -8.96%; Deviation (10 g) = -9.96%;



# ELEMENT

**DUT: Dipole 5600.0 MHz; Type: D5GHzV2 - SN1191**

Communication System: UID: 0, CW; Frequency: 5600.0 MHz  
Medium: 5200-5800 Head; Medium parameters used:  
f = 5600.0 MHz; cond = 5.18 S/m; perm = 35.6; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 05/30/2023; Ambient Temp: 21.1°C; Tissue Temp: 20.1°C

Probe: EX3DV4 - SN7417; ConvF:(4.99,4.99,4.99); Calibrated: 2023-02-08  
Sensor-Surface: 1.4mm (VMS + 6p)  
Electronics: DAE4 Sn665; Calibrated: 2023-02-15  
Phantom: Twin-SAM V5.0; Serial: 1757  
Measurement SW: DASY Module SAR V16.2.0.1425

## 5600 MHz System Verification at 17 dBm (50 mW)

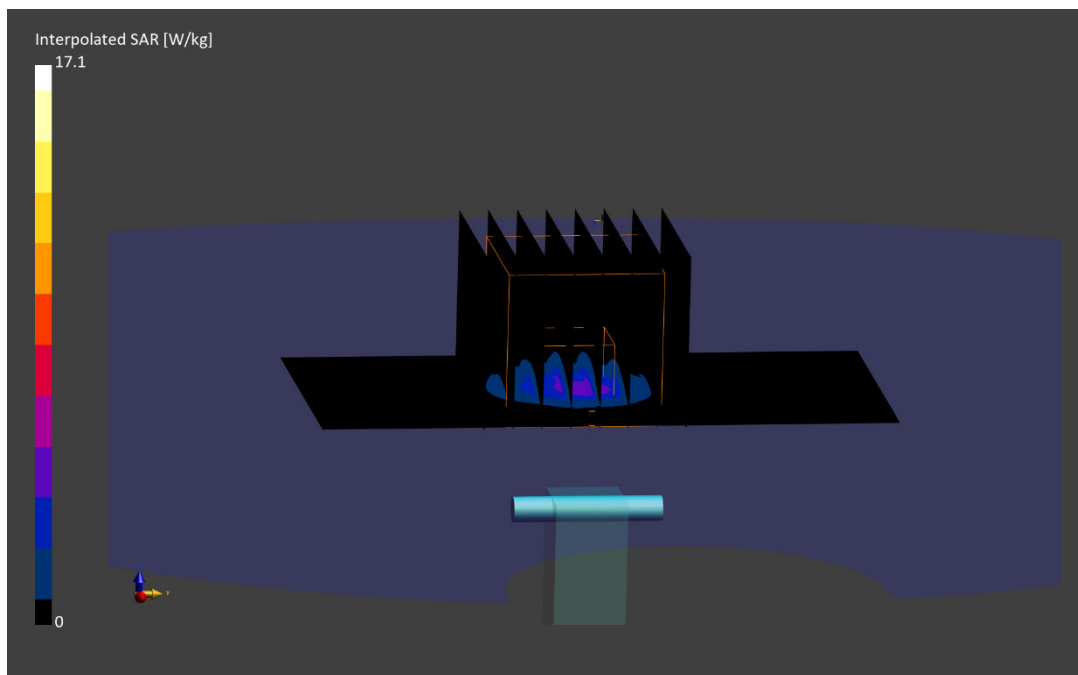
**Area Scan (40.0 x 80.0):** Measurement grid: dx=10.0 mm, dy=10.0 mm

**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) = 17.0 W/kg

**SAR(1 g) = 3.99 W/kg; SAR(10 g) = 1.13 W/kg**

Deviation (1 g) = -2.56%; Deviation (10 g) = -3.00%;



# ELEMENT

**DUT: Dipole 5750.0 MHz; Type: D5GHzV2 - SN1191**

Communication System: UID: 0, CW; Frequency: 5750.0 MHz  
Medium: 5200-5800 Head; Medium parameters used:  
f = 5750.0 MHz; cond = 5.33 S/m; perm = 35.3; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 05/30/2023; Ambient Temp: 21.1°C; Tissue Temp: 20.1°C

Probe: EX3DV4 - SN7417; ConvF:(5.13,5.13,5.13); Calibrated: 2023-02-08  
Sensor-Surface: 1.4mm (VMS + 6p)  
Electronics: DAE4 Sn665; Calibrated: 2023-02-15  
Phantom: Twin-SAM V5.0; Serial: 1757  
Measurement SW: DASY Module SAR V16.2.0.1425

## 5750 MHz System Verification at 17 dBm (50 mW)

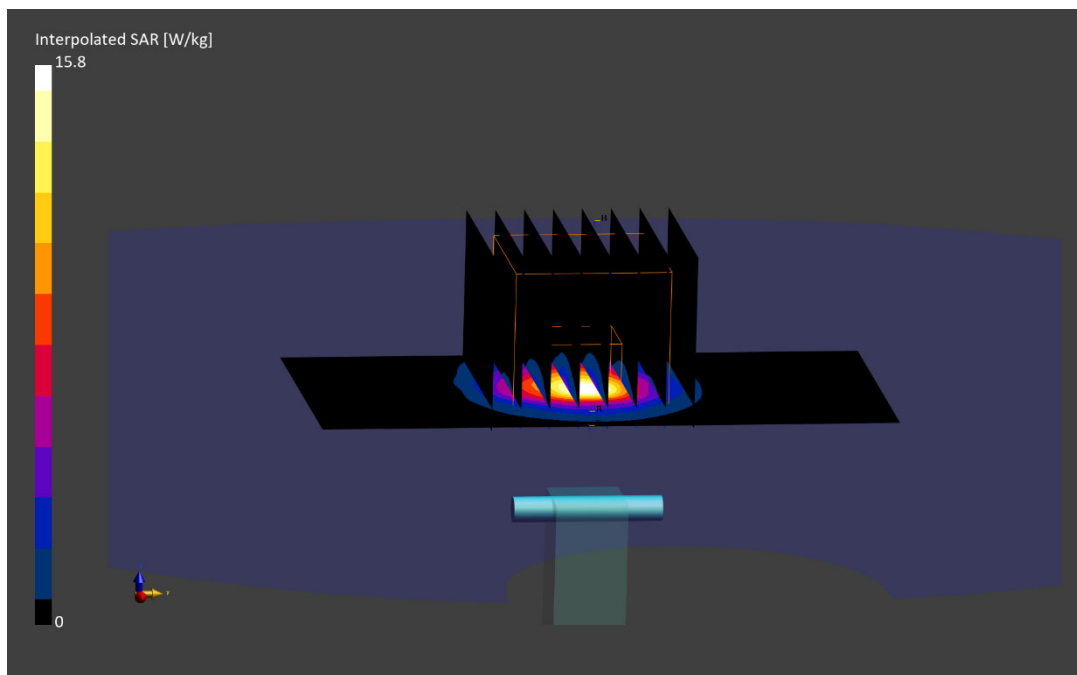
**Area Scan (40.0 x 80.0):** Measurement grid: dx=10.0 mm, dy=10.0 mm

**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(1 g) = 3.58 W/kg; SAR(10 g) = 1.02 W/kg**

Deviation (1 g) = -8.67%; Deviation (10 g) = -8.52%;



# ELEMENT

**DUT: Dipole 5800.0 MHz; Type: D5GHzV2 - SN1191**

Communication System: UID: 0, CW; Frequency: 5800.0 MHz  
Medium: 5200-5800 Head; Medium parameters used:  
f = 5800.0 MHz; cond = 5.43 S/m; perm = 35.1; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 05/30/2023; Ambient Temp: 21.1°C; Tissue Temp: 20.1°C

Probe: EX3DV4 - SN7417; ConvF:(4.88,4.88,4.88); Calibrated: 2023-02-08  
Sensor-Surface: 1.4mm (VMS + 6p)  
Electronics: DAE4 Sn665; Calibrated: 2023-02-15  
Phantom: Twin-SAM V5.0; Serial: 1757  
Measurement SW: DASY Module SAR V16.2.0.1425

## 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) = 3.60 W/kg; SAR(10 g) = 1.03 W/kg**

Deviation (1 g) = -8.86%; Deviation (10 g) = -7.62%;

