

## APPENDIX B: SYSTEM VERIFICATION

# ELEMENT

**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 = 38.8; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 05/08/2022; Ambient Temp: 20.3°C; Tissue Temp: 20.4°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)

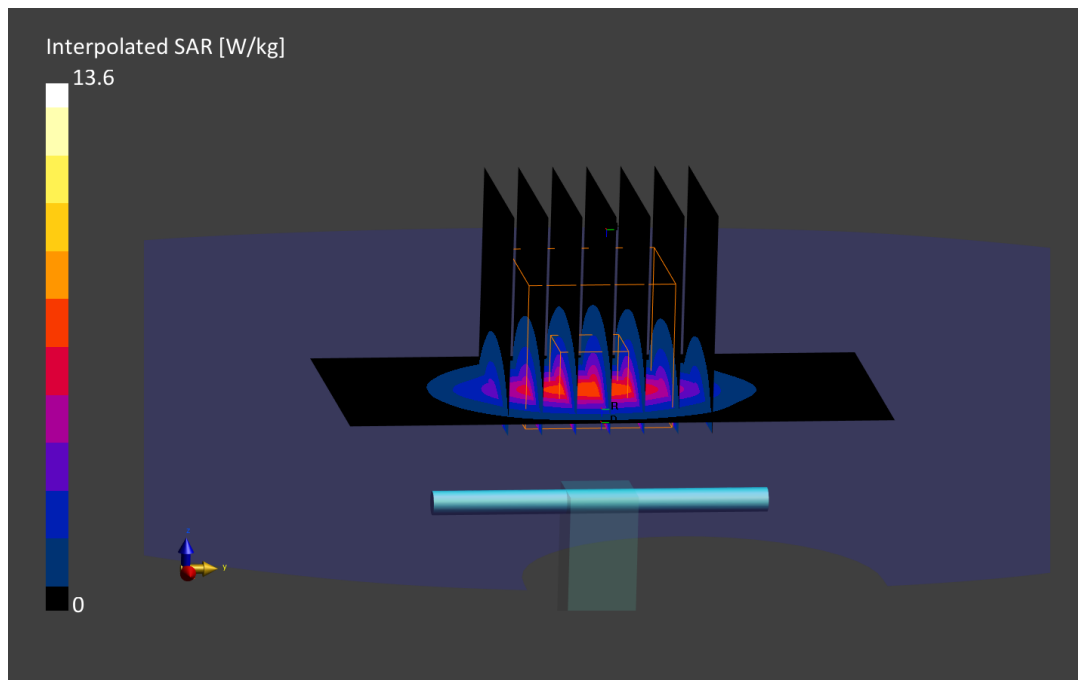
**Area Scan (40.0 x 80.0):** Measurement grid: dx=10.0 mm, dy=10.0 mm

**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) = 13.6 W/kg

**SAR(1 g) = 5.84 W/kg**

Deviation (1 g) = 0.52%



# ELEMENT

**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 = 3.01 S/m; perm = 39.2; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 04/18/2022; Ambient Temp: 22.6°C; Tissue Temp 21.5°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)

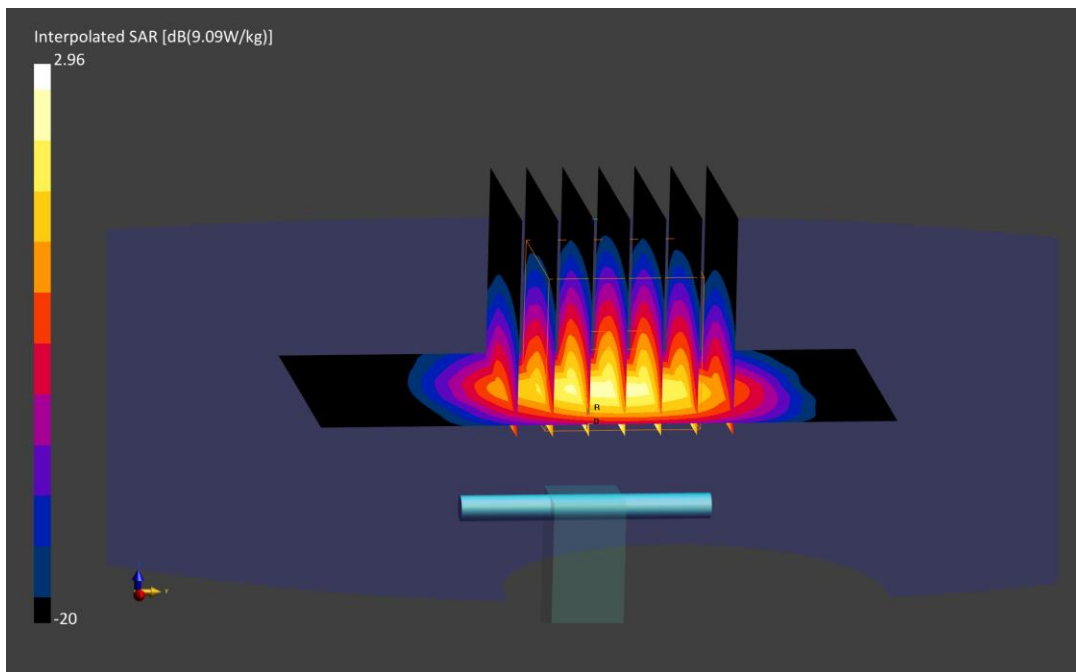
**Area Scan (40.0 x 80.0):** Measurement grid: dx=10.0 mm, dy=10.0 mm

**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) = 18.0 W/kg

**SAR(1 g) = 6.73 W/kg**

Deviation (1 g) = 0.15%



# ELEMENT

**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 = 3.21 S/m; perm = 38.9; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 04/18/2022; Ambient Temp: 22.6°C; Tissue Temp 21.5°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)

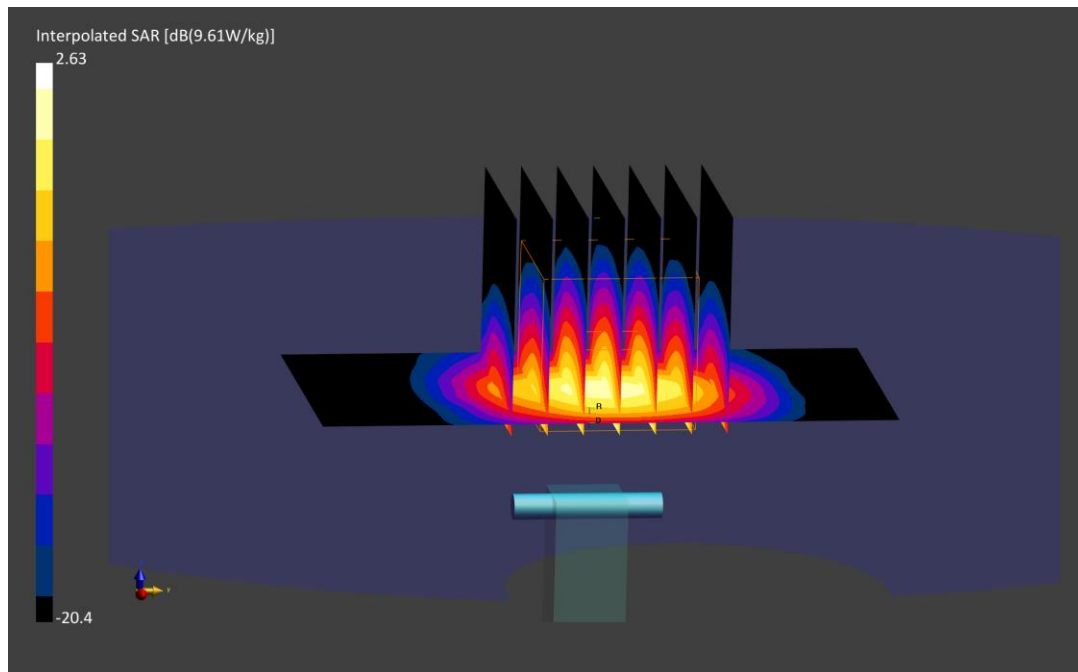
**Area Scan (40.0 x 80.0):** Measurement grid: dx=10.0 mm, dy=10.0 mm

**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) = 17.6 W/kg

**SAR(1 g) = 6.79 W/kg**

Deviation (1 g) = -1.45%



# ELEMENT

**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/m<sup>3</sup>  
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)

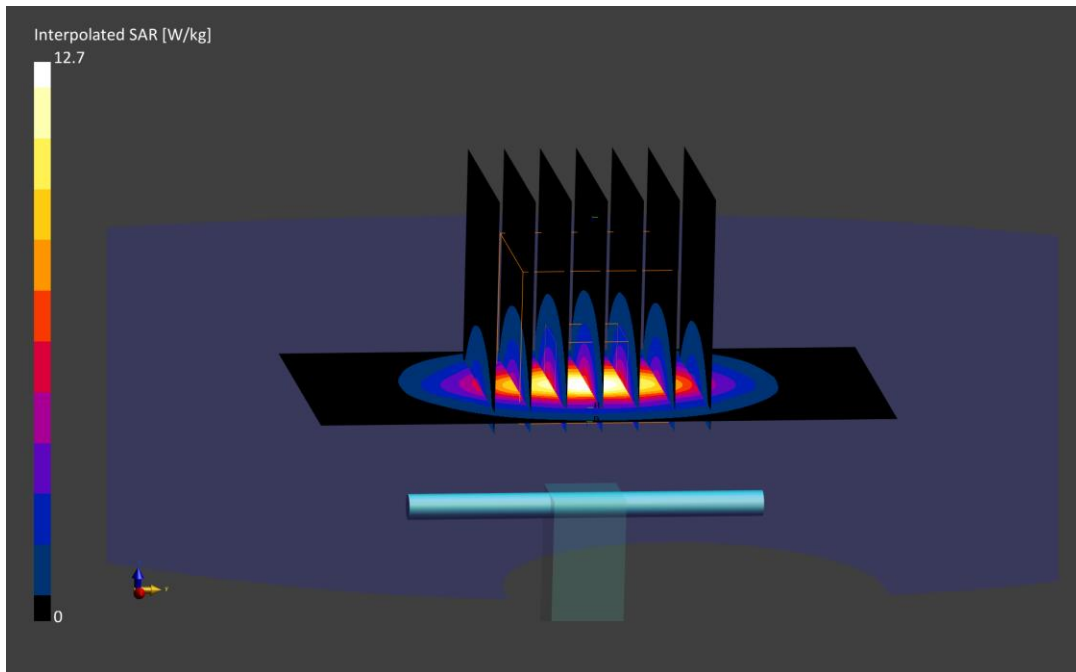
**Area Scan (40.0 x 80.0):** Measurement grid: dx=10.0 mm, dy=10.0 mm

**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

**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 = 3.47 S/m; perm = 51.4; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 06/14/2022; Ambient Temp: 22.0°C; Tissue Temp: 21.0°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: 1966  
Measurement SW: DASY Module SAR V16.0.2.136

## 3700 MHz System Verification at 20 dBm (100 mW)

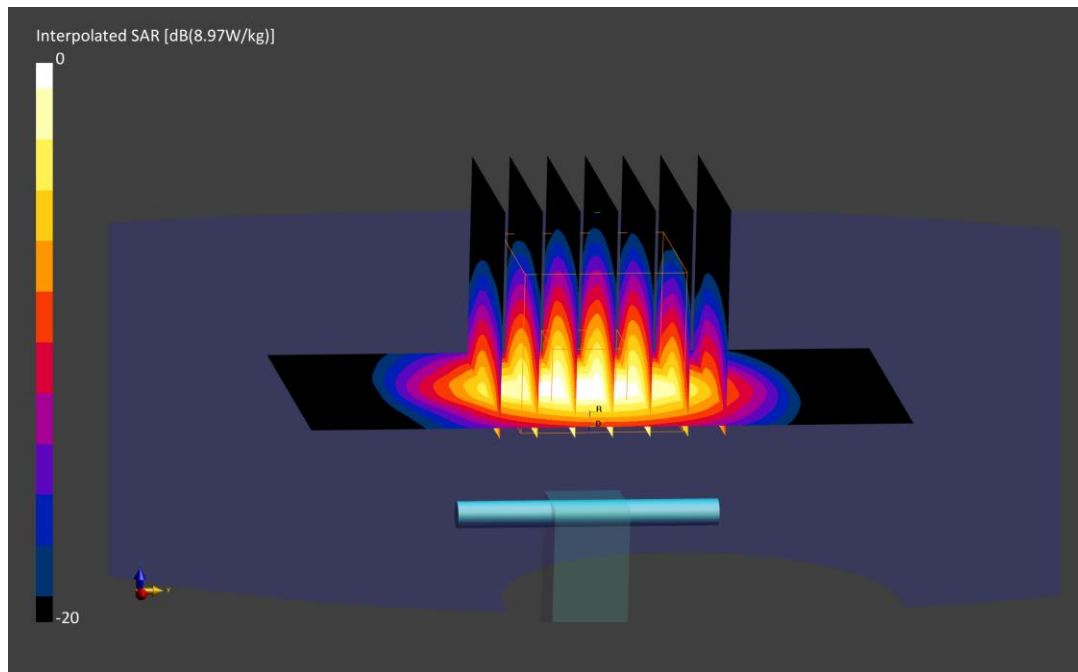
**Area Scan (40.0 x 80.0):** Measurement grid: dx=10.0 mm, dy=10.0 mm

**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) = 16.9 W/kg

**SAR(1 g) = 6.43 W/kg**

Deviation (1 g) = 1.26%



# ELEMENT

**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 = 3.72 S/m; perm = 51.0; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 06/14/2022; Ambient Temp: 22.0°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7670; ConvF:(6.39,6.39,6.39); 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

## 3900 MHz System Verification at 20 dBm (100 mW)

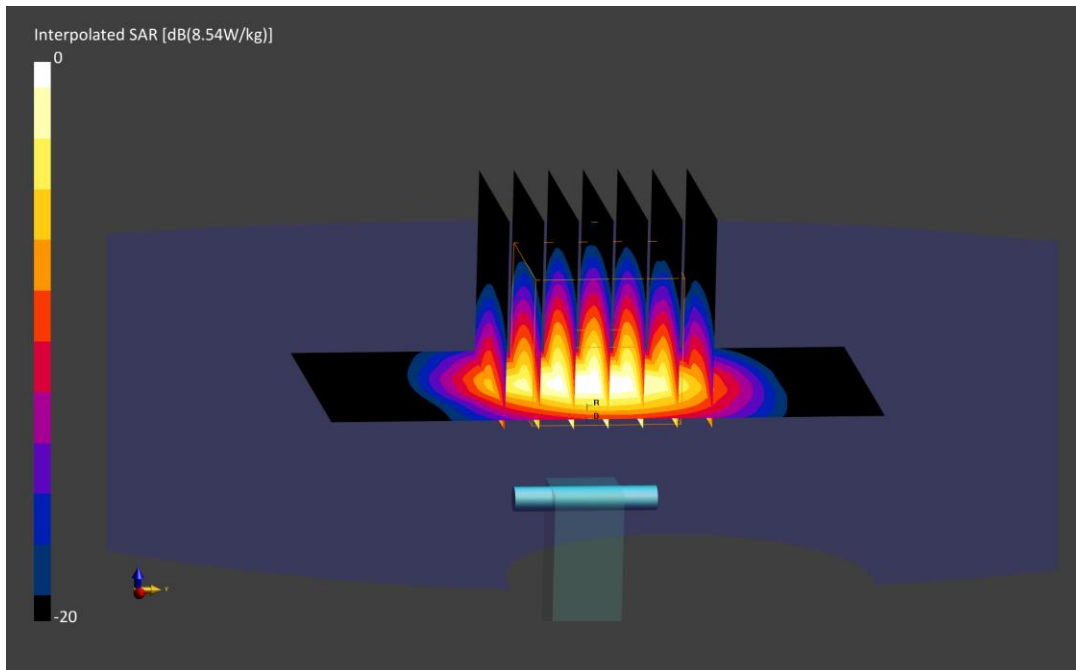
**Area Scan (40.0 x 80.0):** Measurement grid: dx=10.0 mm, dy=10.0 mm

**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) = 16.7 W/kg

**SAR(1 g) = 6.17 W/kg**

Deviation (1 g) = -4.04%



# ELEMENT

**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 = 3.46 S/m; perm = 52.7; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 07/05/2022; Ambient Temp: 20.9°C; Tissue Temp: 20.7°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: 1966  
Measurement SW: DASY Module SAR V16.0.2.136

## 3700 MHz System Verification at 20 dBm (100 mW)

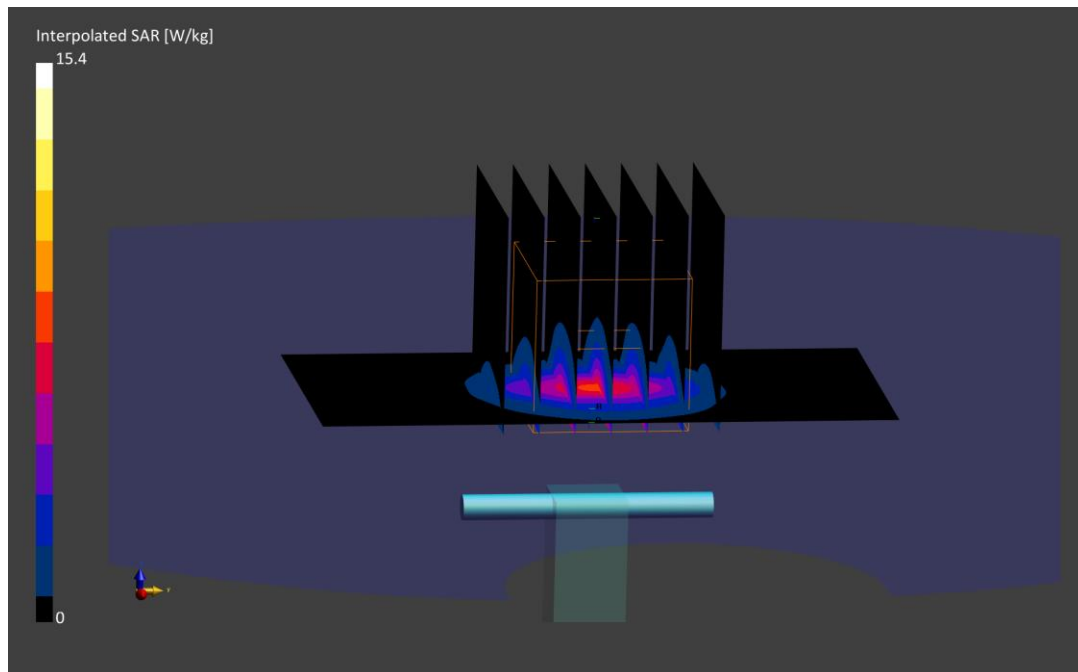
**Area Scan (40.0 x 80.0):** Measurement grid: dx=10.0 mm, dy=10.0 mm

**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) = 15.4 W/kg

**SAR(10 g) = 2.17 W/kg**

Deviation (10 g) = -3.56%;





# ELEMENT

**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 = 3.72 S/m; perm = 52.4; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 07/05/2022; Ambient Temp: 20.9°C; Tissue Temp: 20.7°C

Probe: EX3DV4 - SN7670; ConvF:(6.39,6.39,6.39); 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

## 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) = 16.5 W/kg

**SAR(10 g) = 2.18 W/kg**

Deviation (10 g) = -0.91%;

