

APPENDIX B: SYSTEM VERIFICATION

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; $\text{cond} = 1.86$ S/m; $\text{perm} = 39.5$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 06/06/2022; Ambient Temp: 22.7°C; Tissue Temp: 23.2°C

Probe: EX3DV4 - SN7427; ConvF:(7.28,7.28,7.28); Calibrated: 2022-02-22

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

Electronics: DAE4 Sn1403; Calibrated: 2022-02-22

Phantom: Twin-SAM V8.0; Serial: 1944

Measurement SW: DASY Module SAR V16.0.2.136

2450 MHz System Verification at 20 dBm (100 mW)

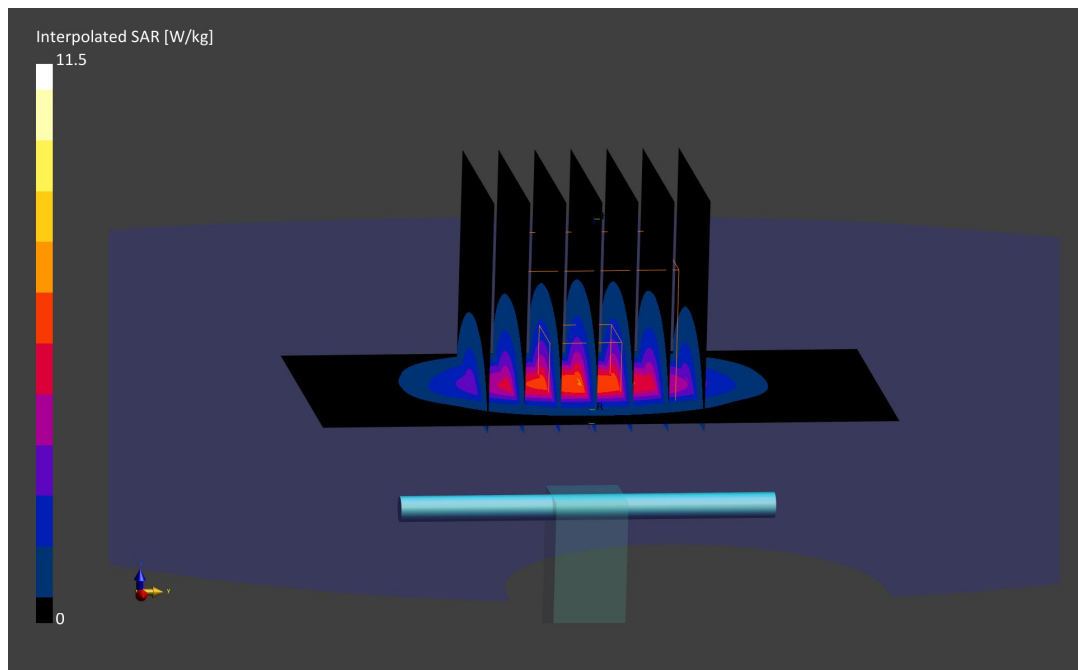
Area Scan (40.0 x 80.0): Measurement grid: $dx=10.0$ mm, $dy=10.0$ mm

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) = 11.5 W/kg

SAR(1 g) = 5.31 W/kg; SAR(10 g) = 2.43 W/kg

Deviation (1 g) = -2.03%; Deviation (10 g) = -4.71%;



ELEMENT

DUT: Dipole 5250.0 MHz; Type: D5GHzV2 - SN1123

Communication System: UID: 0, CW; Frequency: 5250.0 MHz

Medium: 5200-5800 Head; Medium parameters used:

$f = 5250.0$ MHz; $\text{cond} = 4.63$ S/m; $\text{perm} = 35.7$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 06/06/2022; Ambient Temp: 19.7°C; Tissue Temp: 19.4°C

Probe: EX3DV4 - SN7546; ConvF:(5.71,5.71,5.71); 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 V16.0.2.83

5250 MHz System Verification at 17 dBm (50 mW)

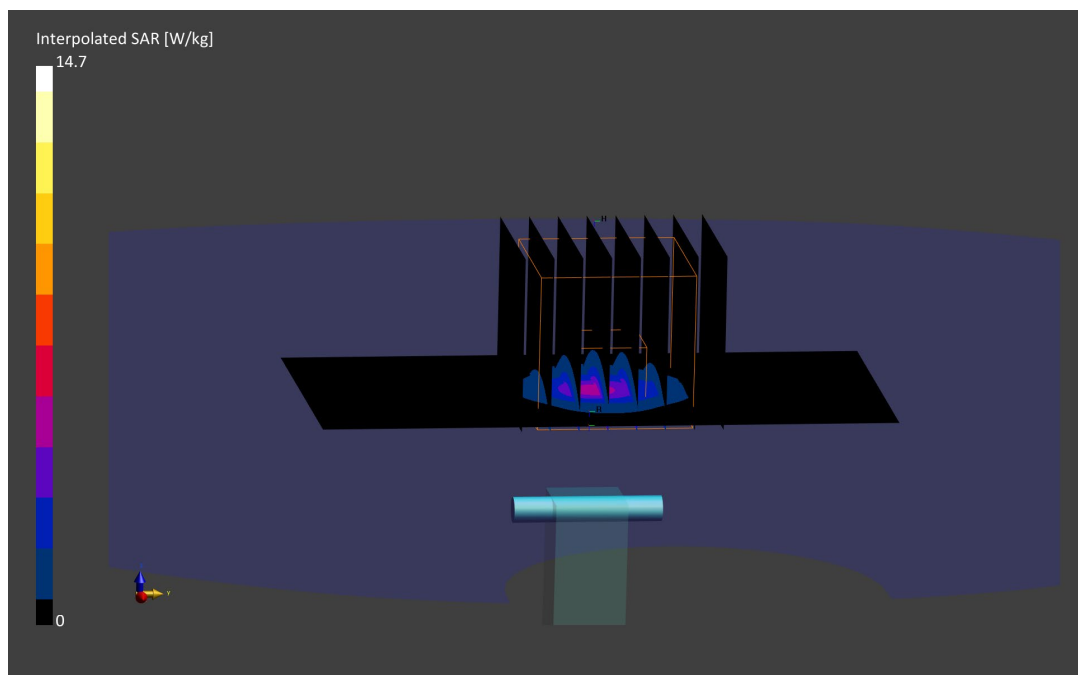
Area Scan (40.0 x 80.0): Measurement grid: $dx=10.0$ mm, $dy=10.0$ mm

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) = 14.7 W/kg

SAR(1 g) = 3.75 W/kg; SAR(10 g) = 1.07 W/kg

Deviation (1 g) = -6.83%; Deviation (10 g) = -6.55%;



ELEMENT

DUT: Dipole 5600.0 MHz; Type: D5GHzV2 - SN1123

Communication System: UID: 0, CW; Frequency: 5600.0 MHz
Medium: 5200-5800 Head; Medium parameters used:
 $f = 5600.0$ MHz; $\text{cond} = 5.03$ S/m; $\text{perm} = 35.0$; $\text{density} = 1000$ kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 06/06/2022; Ambient Temp: 19.7°C; Tissue Temp: 19.4°C

Probe: EX3DV4 - SN7546; ConvF:(4.95,4.95,4.95); 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 V16.0.2.83

5600 MHz System Verification at 17 dBm (50 mW)

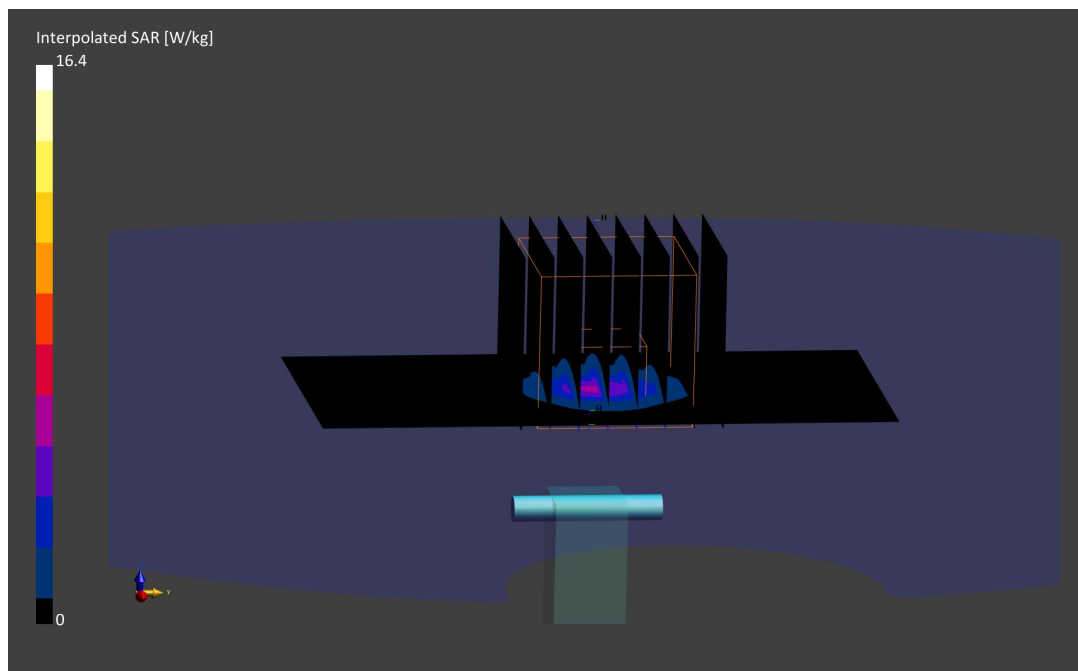
Area Scan (40.0 x 80.0): Measurement grid: $dx=10.0$ mm, $dy=10.0$ mm

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) = 16.4 W/kg

SAR(1 g) = 3.88 W/kg; SAR(10 g) = 1.10 W/kg

Deviation (1 g) = -7.29%; Deviation (10 g) = -7.17%;



ELEMENT

DUT: Dipole 5750.0 MHz; Type: D5GHzV2 - SN1123

Communication System: UID: 0, CW; Frequency: 5750.0 MHz
Medium: 5200-5800 Head; Medium parameters used:
 $f = 5750.0$ MHz; $\text{cond} = 5.20$ S/m; $\text{perm} = 34.8$; $\text{density} = 1000$ kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 06/06/2022; Ambient Temp: 19.7°C; Tissue Temp: 19.4°C

Probe: EX3DV4 - SN7546; ConvF:(5.02,5.02,5.02); 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 V16.0.2.83

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) = 16.3 W/kg

SAR(1 g) = 3.74 W/kg; SAR(10 g) = 1.06 W/kg

Deviation (1 g) = -7.08%; Deviation (10 g) = -6.61%;

