

APPENDIX B: SYSTEM VERIFICATION

PCTEST

DUT: Dipole 3500.0 MHz; Type: D3500V2; Serial Number: 1097

Communication System: UID: 0--, CW; Frequency: 3500.0 MHz
Medium: 3600 Head; Medium parameters used:
f = 3500.0 MHz; cond = 2.89 S/m; perm = 39.3; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 05/23/2021; Ambient Temp: 22.1°C; Tissue Temp: 20.3°C

Probe: EX3DV4 - SN7539; ConvF:(6.76,6.76,6.76); Calibrated: 2020-10-20
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1415; Calibrated: 2021-03-10
Phantom: Twin-SAM V8.0 (Right); Serial: 1966
Measurement SW: cDASY6 Module SAR V6.14.0.959

3500.0 MHz System Verification at 20.0 dBm (100 mW)

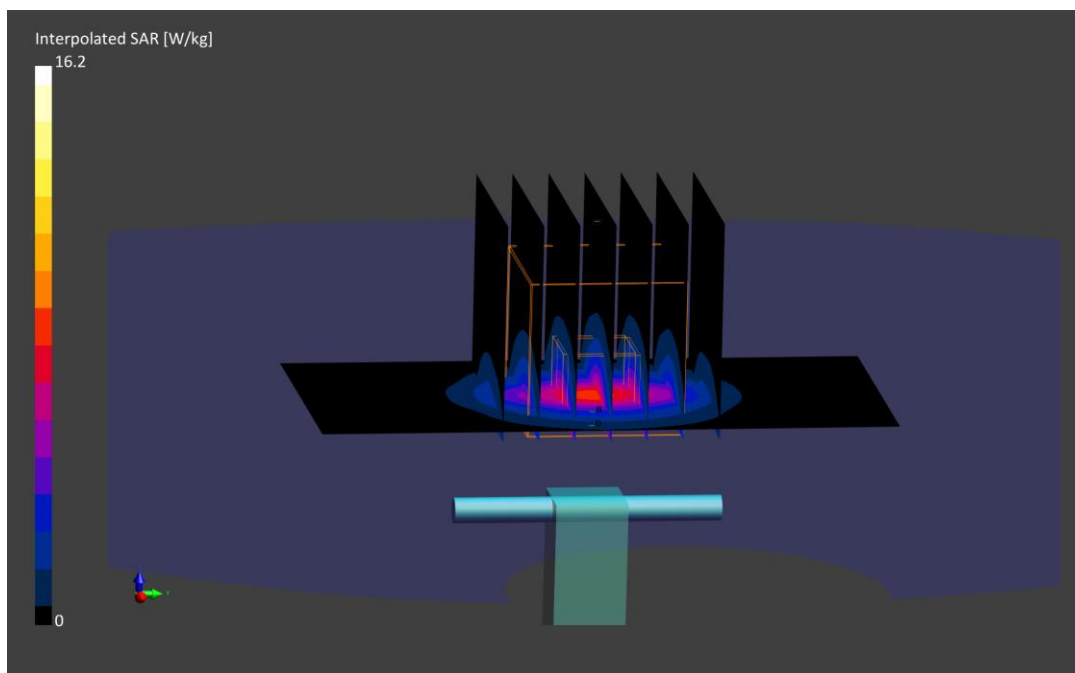
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0mm, dy=10.0mm

Zoom Scan (28.0 x 28.0 x 28.0): Measurement grid: dx=5.0mm, dy=5.0mm, dz=1.4mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 16.2 W/kg

SAR(1 g) = 6.23 W/kg

Deviation (1 g) = -6.17%



PCTEST

DUT: Dipole 3700.0 MHz; Type: D3700V2; Serial Number: 1067

Communication System: UID: 0--, CW; Frequency: 3700.0 MHz
Medium: 3600 Head; Medium parameters used:
 $f = 3700.0$ MHz; $\text{cond} = 3.08$ S/m; $\text{perm} = 39.0$; $\text{density} = 1000$ kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 05/23/2021; Ambient Temp: 22.1°C; Tissue Temp: 20.3°C

Probe: EX3DV4 - SN7539; ConvF:(6.55,6.55,6.55); Calibrated: 2020-10-20
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1415; Calibrated: 2021-03-10
Phantom: Twin-SAM V8.0 (Right); Serial: 1966
Measurement SW: cDASY6 Module SAR V6.14.0.959

3700.0 MHz System Verification at 20.0 dBm (100 mW)

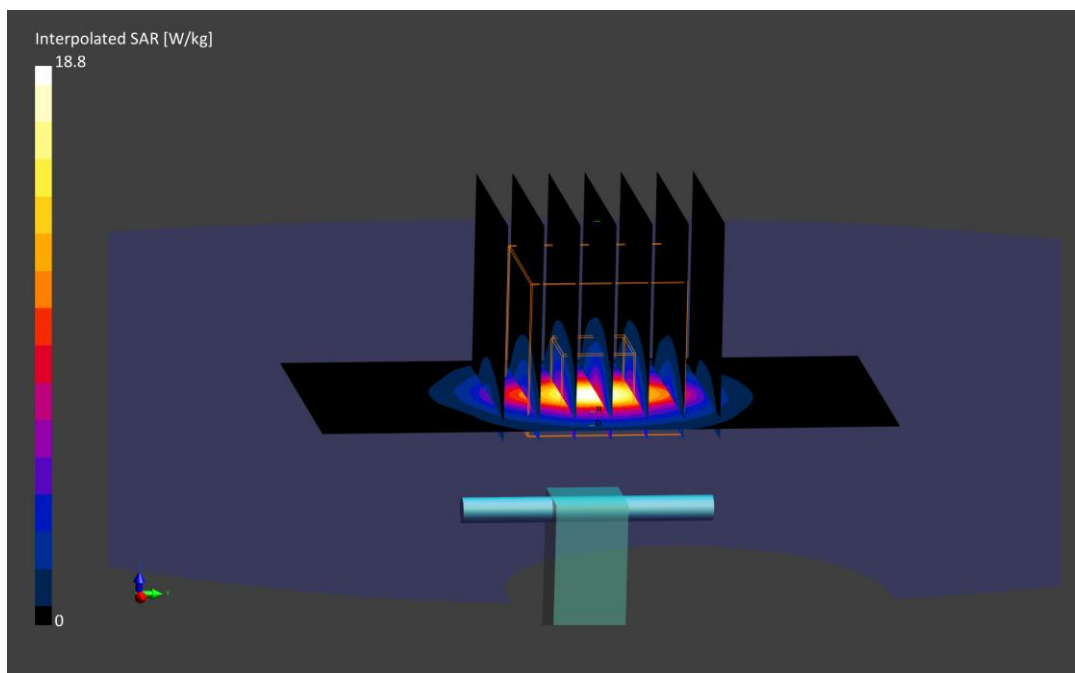
Area Scan (40.0 x 80.0): Measurement grid: $dx=10.0$ mm, $dy=10.0$ mm

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: 1.4

Peak SAR (extrapolated) = 18.8 W/kg

SAR(1 g) = 7.00 W/kg

Deviation (1 g) = 4.17%



PCTEST

DUT: Dipole 3500.0 MHz; Type: D3500V2; Serial Number: 1097

Communication System: UID: 0--, CW; Frequency: 3500.0 MHz
Medium: 3600 Body; Medium parameters used:
f = 3500.0 MHz; cond = 3.35 S/m; perm = 49.6; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 05/27/2021; Ambient Temp: 23.0°C; Tissue Temp: 22.5°C

Probe: EX3DV4 - SN7551; ConvF:(6.31,6.31,6.31); Calibrated: 2020-10-20
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1333; Calibrated: 2020-10-16
Phantom: Twin-SAM V5.0 Right Back; Serial: 1692
Measurement SW: cDASY6 Module SAR V6.14.0.959

3500.0 MHz System Verification at 20.0 dBm (100 mW)

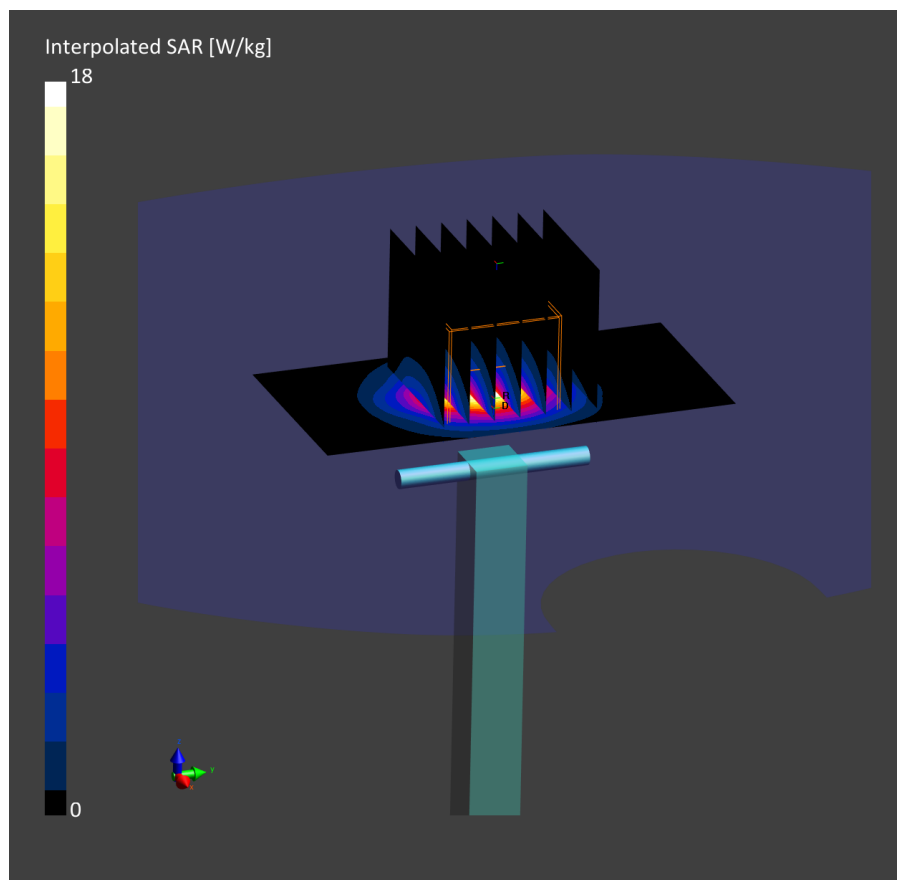
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0mm, dy=10.0mm

Zoom Scan (28.0 x 28.0 x 28.0): Measurement grid: dx=5.0mm, dy=5.0mm, dz=1.4mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 18.0 W/kg

SAR(1 g) = 7.00 W/kg

Deviation (1 g) = 9.03%



PCTEST

DUT: Dipole 3700.0 MHz; Type: D3700V2; Serial Number: 1067

Communication System: UID: 0--, CW; Frequency: 3700.0 MHz
Medium: 3600 Body; Medium parameters used:
 $f = 3700.0$ MHz; $\text{cond} = 3.55$ S/m; $\text{perm} = 49.3$; $\text{density} = 1000$ kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 05/27/2021; Ambient Temp: 23.0°C; Tissue Temp: 22.5°C

Probe: EX3DV4 - SN7551; ConvF:(6.41,6.41,6.41); Calibrated: 2020-10-20
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1333; Calibrated: 2020-10-16
Phantom: Twin-SAM V5.0 Right Back; Serial: 1692
Measurement SW: cDASY6 Module SAR V6.14.0.959

3700.0 MHz System Verification at 20.0 dBm (100 mW)

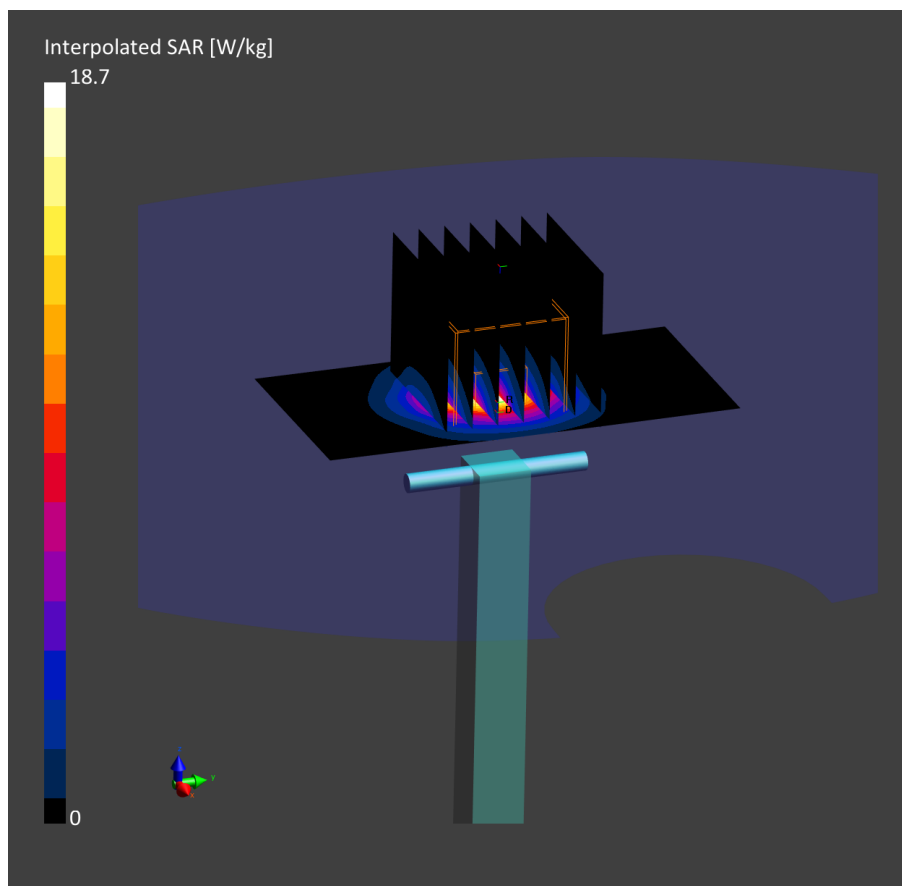
Area Scan (40.0 x 80.0): Measurement grid: $dx=10.0$ mm, $dy=10.0$ mm

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: 1.4

Peak SAR (extrapolated) = 18.7 W/kg

SAR(1 g) = 6.98 W/kg

Deviation (1 g) = 7.06%



PCTEST

DUT: Dipole 3500.0 MHz; Type: D3500V2; Serial Number: 1097

Communication System: UID: 0--, CW; Frequency: 3500.0 MHz
Medium: 3600 Body; Medium parameters used:
f = 3500.0 MHz; cond = 3.35 S/m; perm = 49.6; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 05/31/2021; Ambient Temp: 22.0°C; Tissue Temp: 22.0°C

Probe: EX3DV4 - SN7551; ConvF:(6.31,6.31,6.31); Calibrated: 2020-10-20
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1333; Calibrated: 2020-10-16
Phantom: Twin-SAM V5.0 Right Back; Serial: 1692
Measurement SW: cDASY6 Module SAR V6.14.0.959

3500.0 MHz System Verification at 20.0 dBm (100 mW)

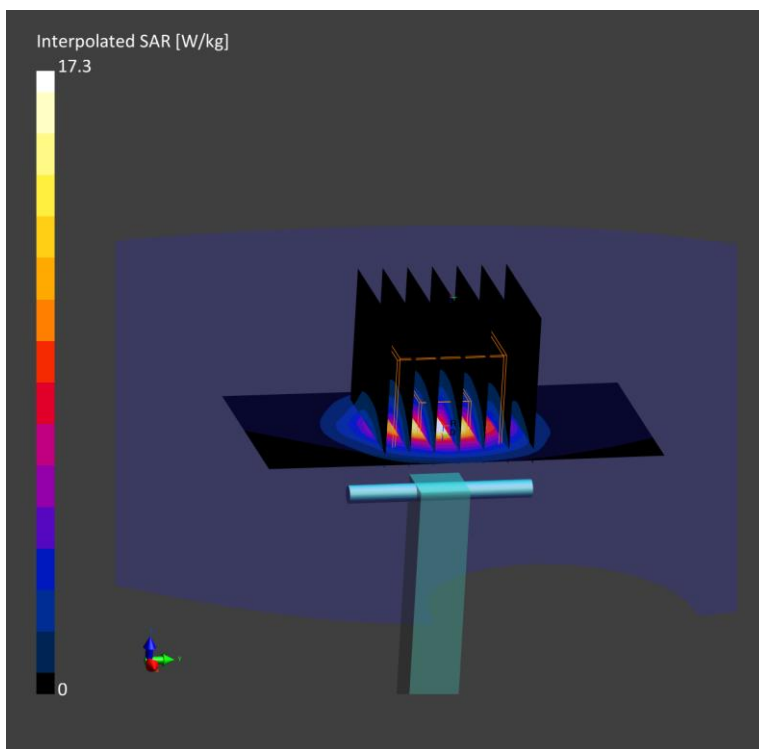
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0mm, dy=10.0mm

Zoom Scan (28.0 x 28.0 x 28.0): Measurement grid: dx=5.0mm, dy=5.0mm, dz=1.4mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 17.3 W/kg

SAR(1 g) = 6.63 W/kg; SAR(10 g) = 2.45 W/kg

Deviation (1 g) = 3.27%; Deviation (10 g) = 2.94%



PCTEST

DUT: Dipole 3700.0 MHz; Type: D3700V2; Serial Number: 1067

Communication System: UID: 0--, CW; Frequency: 3700.0 MHz
Medium: 3600 Body; Medium parameters used:
f = 3700.0 MHz; cond = 3.54 S/m; perm = 49.4; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 05/31/2021; Ambient Temp: 22.0°C; Tissue Temp: 22.0°C

Probe: EX3DV4 - SN7551; ConvF:(6.41,6.41,6.41); Calibrated: 2020-10-20
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1333; Calibrated: 2020-10-16
Phantom: Twin-SAM V5.0 Right Back; Serial: 1692
Measurement SW: cDASY6 Module SAR V6.14.0.959

3700.0 MHz System Verification at 20.0 dBm (100 mW)

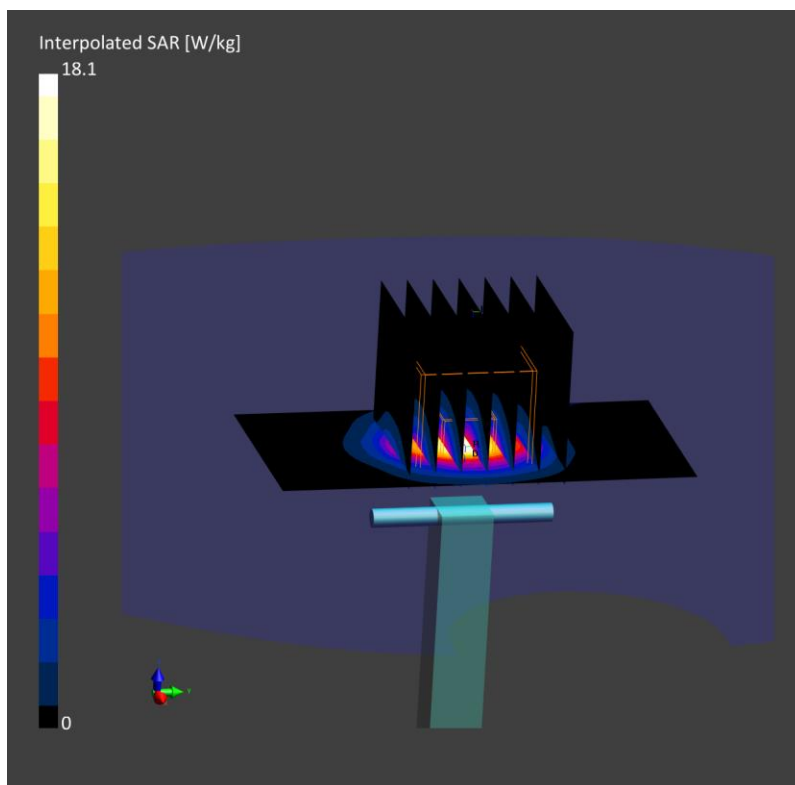
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0mm, dy=10.0mm

Zoom Scan (28.0 x 28.0 x 28.0): Measurement grid: dx=5.0mm, dy=5.0mm, dz=1.4mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 18.1 W/kg

SAR(1 g) = 6.60 W/kg; SAR(10 g) = 2.36 W/kg

Deviation (1 g) = 1.23%; Deviation (10 g) = 1.29%



PCTEST

DUT: Dipole 3500.0 MHz; Type: D3500V2; Serial Number: 1097

Communication System: UID: 0, CW; Frequency: 3500.0 MHz
Medium: 3600 Body; Medium parameters used:
 $f = 3500.0$ MHz; $\text{cond} = 3.36$ S/m; $\text{perm} = 50.2$; $\text{density} = 1000$ kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 01/03/2022; Ambient Temp: 21.9°C; Tissue Temp: 22.2°C

Probe: EX3DV4 - SN7670; ConvF:(6.52,6.52,6.52); 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 V16.0.0.116

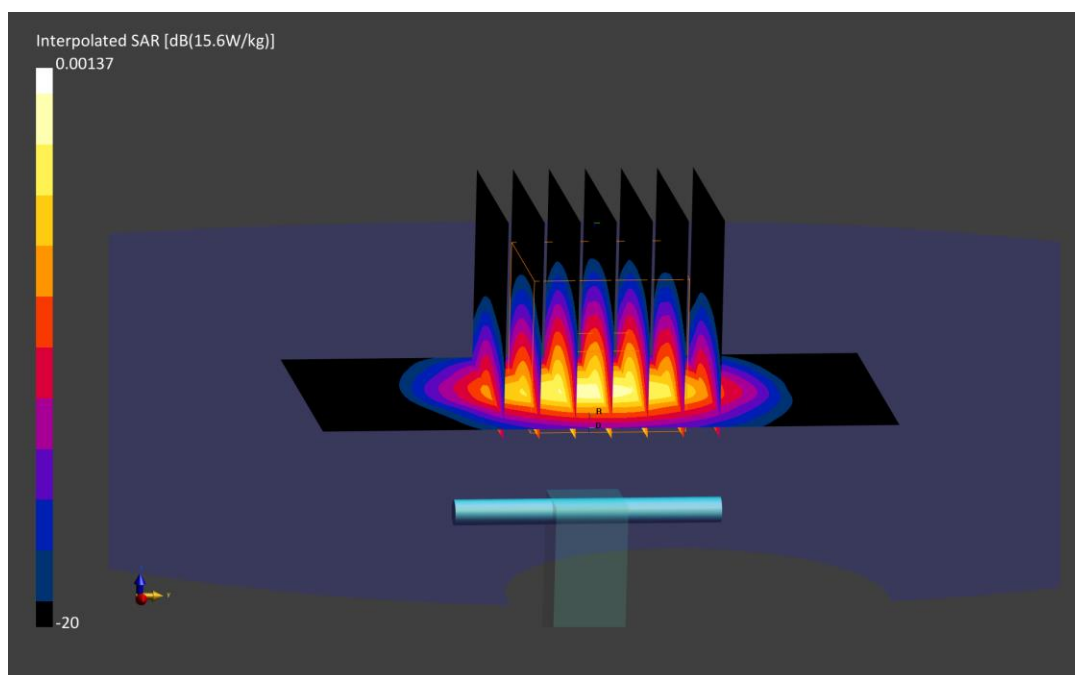
3500 MHz System Verification at 20 dBm (100 mW)

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) = 15.6 W/kg

SAR(1 g) = 5.98 W/kg

Deviation (1 g) = -6.85%



PCTEST

DUT: Dipole 3700.0 MHz; Type: D3700V2; Serial Number: 1067

Communication System: UID: 0, CW; Frequency: 3700.0 MHz
Medium: 3600 Body; Medium parameters used:
f = 3700.0 MHz; cond = 3.57 S/m; perm = 49.9; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 01/03/2022; Ambient Temp: 21.9°C; Tissue Temp: 22.2°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 V16.0.0.116

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) = 17.1 W/kg

SAR(1 g) = 6.30 W/kg

Deviation (1 g) = -3.37%

