

APPENDIX B: SYSTEM VERIFICATION

PCTEST

DUT: Dipole 750 MHz; Type: D750V3; Serial: 1003

Communication System: UID 0, CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: 750 Head Medium parameters used:

$f = 750 \text{ MHz}$; $\sigma = 0.901 \text{ S/m}$; $\epsilon_r = 42.153$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 05/23/2021; Ambient Temp: 22.2°C; Tissue Temp: 22.2°C

Probe: EX3DV4 - SN7357; ConvF(10.18, 10.18, 10.18) @ 750 MHz; Calibrated: 4/19/2021

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1407; Calibrated: 4/7/2021

Phantom: Front; Type: QD 000 P40 CD; Serial: 1686

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

750 MHz System Verification at 23.0 dBm (200 mW)

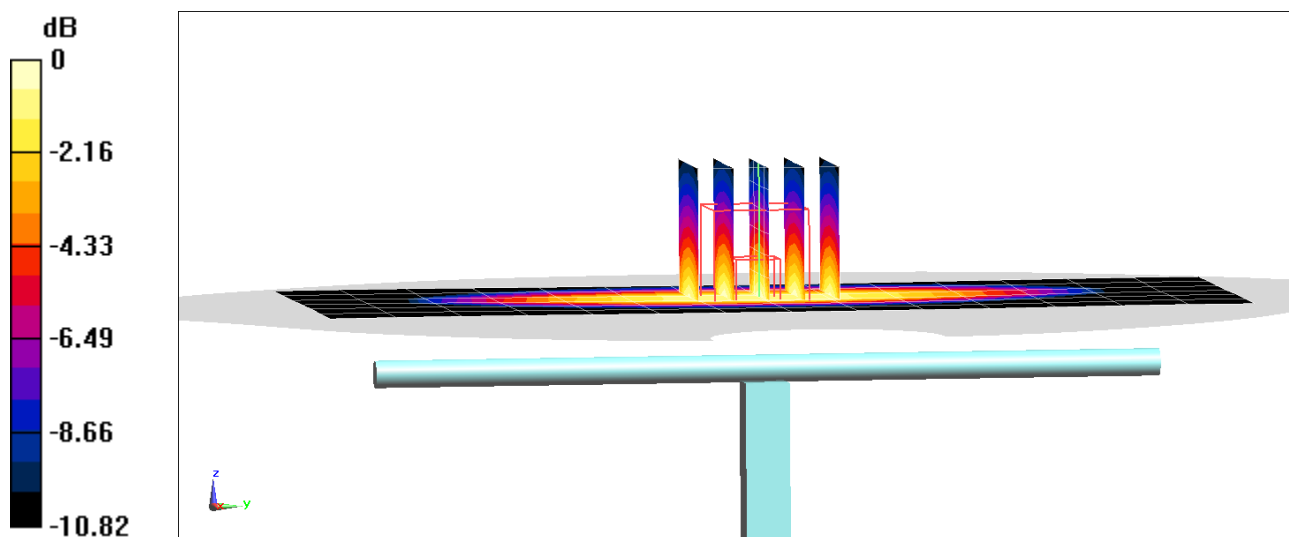
Area Scan (7x15x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Peak SAR (extrapolated) = 2.63 W/kg

SAR(1 g) = 1.69 W/kg

Deviation(1 g) = -3.76%



0 dB = 2.30 W/kg = 3.62 dBW/kg

PCTEST

DUT: Dipole 750 MHz; Type: D750V3; Serial: 1003

Communication System: UID 0, CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: 750 Head Medium parameters used:

$f = 750 \text{ MHz}$; $\sigma = 0.92 \text{ S/m}$; $\epsilon_r = 41.019$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 05/30/2021; Ambient Temp: 23.0°C; Tissue Temp: 22.4°C

Probe: EX3DV4 - SN7357; ConvF(10.18, 10.18, 10.18) @ 750 MHz; Calibrated: 4/19/2021

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1407; Calibrated: 4/7/2021

Phantom: Front; Type: QD 000 P40 CD; Serial: 1686

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

750 MHz System Verification at 23.0 dBm (200 mW)

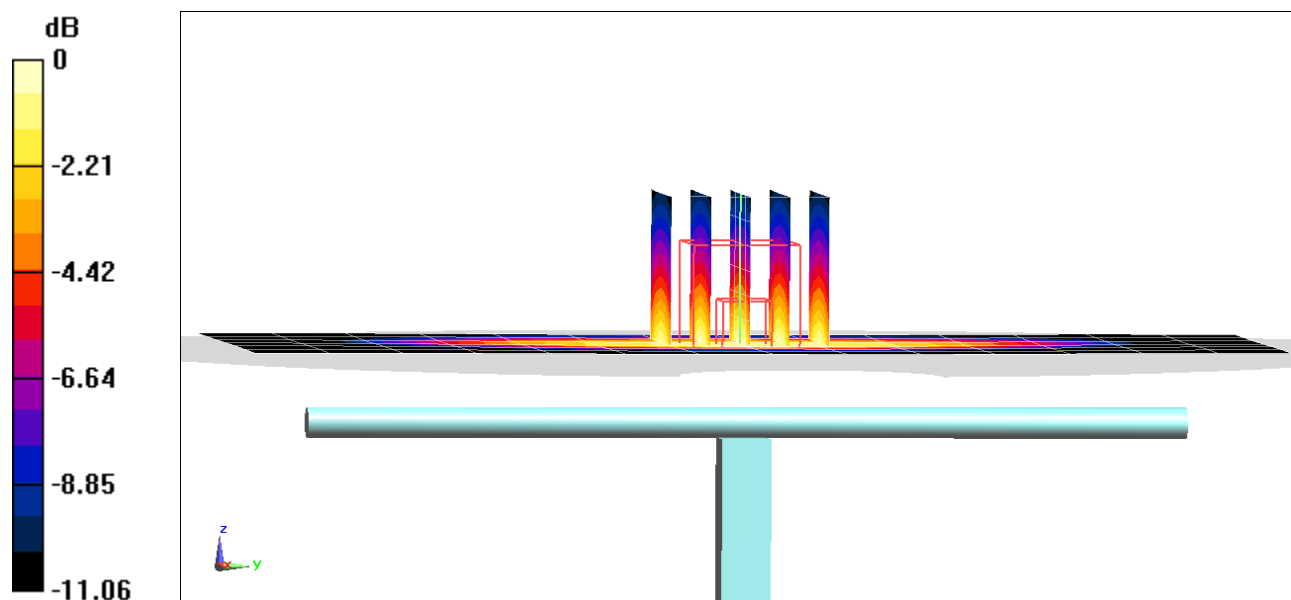
Area Scan (7x15x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Peak SAR (extrapolated) = 2.80 W/kg

SAR(1 g) = 1.78 W/kg

Deviation(1 g) = 1.37%



0 dB = 2.44 W/kg = 3.87 dBW/kg

PCTEST

DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d132

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: 835 Head Medium parameters used:

$f = 835 \text{ MHz}$; $\sigma = 0.927 \text{ S/m}$; $\epsilon_r = 40.544$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 06/03/2021; Ambient Temp: 22.1°C; Tissue Temp: 22.7°C

Probe: EX3DV4 - SN7526; ConvF(9.16, 9.16, 9.16) @ 835 MHz; Calibrated: 3/16/2021

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1272; Calibrated: 3/18/2021

Phantom: SAM Left; Type: QD000P40CC; Serial: TP: 1375

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

835 MHz System Verification at 23.0 dBm (200 mW)

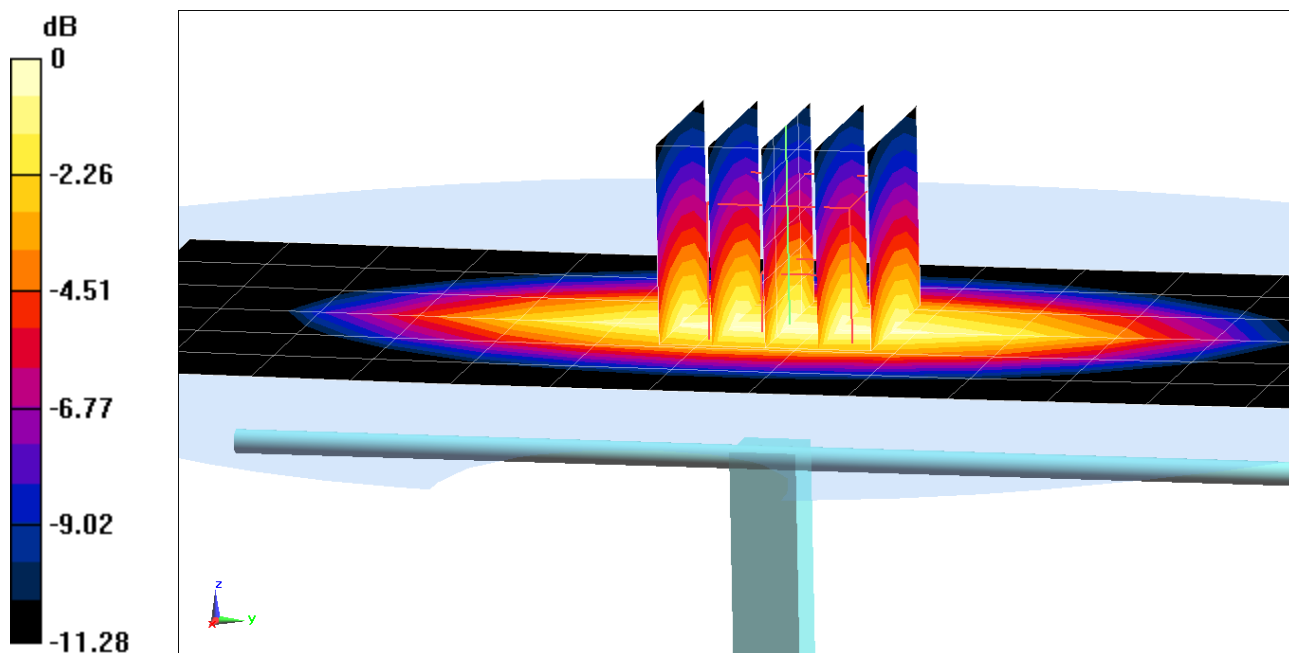
Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 3.06 W/kg

SAR(1 g) = 1.95 W/kg

Deviation(1 g) = 0.93%



0 dB = 2.67 W/kg = 4.27 dBW/kg

PCTEST

DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d132

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: 835 Head Medium parameters used:

$f = 835 \text{ MHz}$; $\sigma = 0.92 \text{ S/m}$; $\epsilon_r = 39.605$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 06/06/2021; Ambient Temp: 21.1°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7526; ConvF(9.16, 9.16, 9.16) @ 835 MHz; Calibrated: 3/16/2021

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1272; Calibrated: 3/18/2021

Phantom: SAM Left; Type: QD000P40CC; Serial: TP: 1375

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

835 MHz System Verification at 23.0 dBm (200 mW)

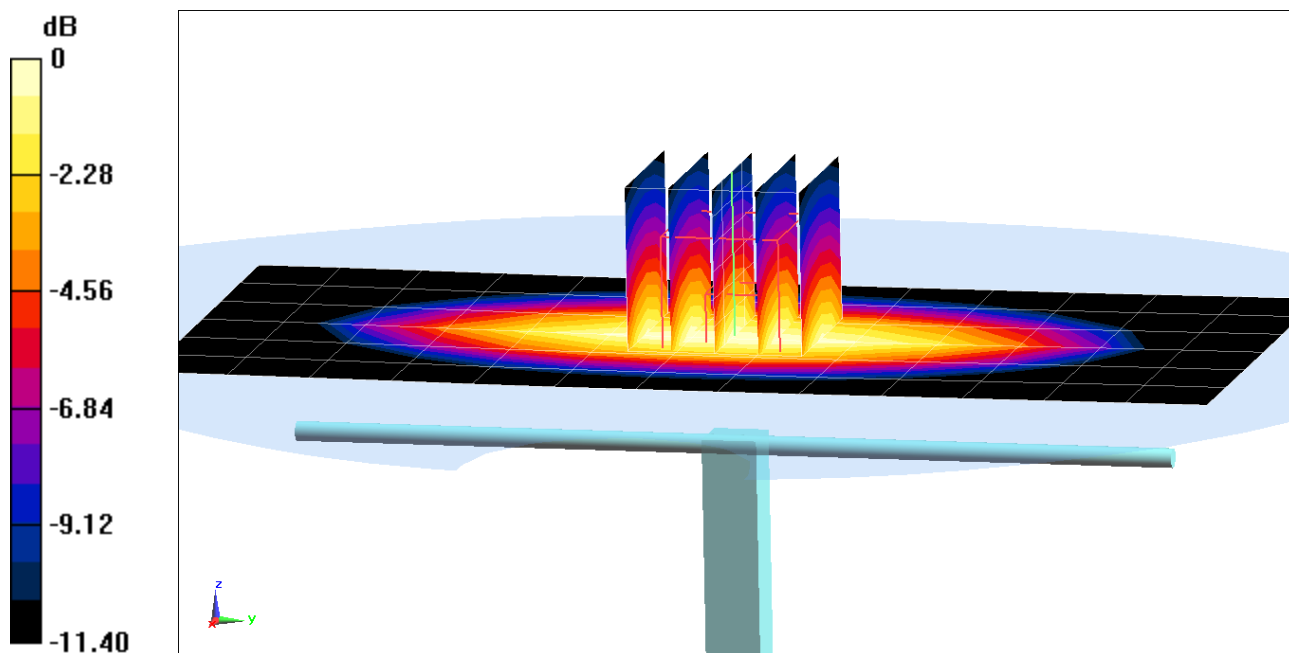
Area Scan (7x14x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Peak SAR (extrapolated) = 3.42 W/kg

SAR(1 g) = 2.07 W/kg

Deviation(1 g) = 7.14%



0 dB = 2.91 W/kg = 4.64 dBW/kg

PCTEST

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: 1150

Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: 1750 Head Medium parameters used:

$f = 1750 \text{ MHz}$; $\sigma = 1.397 \text{ S/m}$; $\epsilon_r = 41.108$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/18/2021; Ambient Temp: 23.0°C; Tissue Temp: 22.2°C

Probe: EX3DV4 - SN7357; ConvF(8.67, 8.67, 8.67) @ 1750 MHz; Calibrated: 4/19/2021

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1407; Calibrated: 4/7/2021

Phantom: Front; Type: QD 000 P40 CD; Serial: 1686

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

1750 MHz System Verification at 20.0 dBm (100 mW)

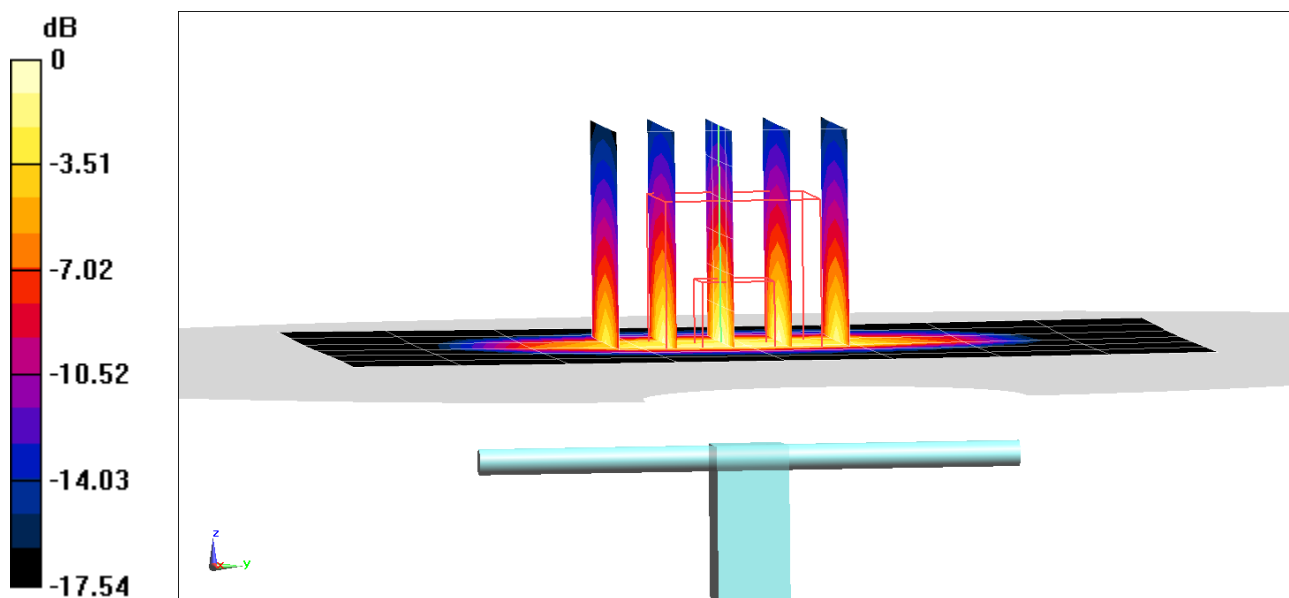
Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 7.14 W/kg

SAR(1 g) = 3.82 W/kg

Deviation(1 g) = 4.66%



0 dB = 5.93 W/kg = 7.73 dBW/kg

PCTEST

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d149

Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: 1900 Head Medium parameters used:

$f = 1900 \text{ MHz}$; $\sigma = 1.428 \text{ S/m}$; $\epsilon_r = 38.076$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/03/2021; Ambient Temp: 23.6°C; Tissue Temp: 23.4°C

Probe: EX3DV4 - SN7571; ConvF(8.01, 8.01, 8.01) @ 1900 MHz; Calibrated: 12/11/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1533; Calibrated: 12/7/2020

Phantom: SAM 5.0 front; Type: QD000P40CD; Serial: 1648

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

1900 MHz System Verification at 20.0 dBm (100 mW)

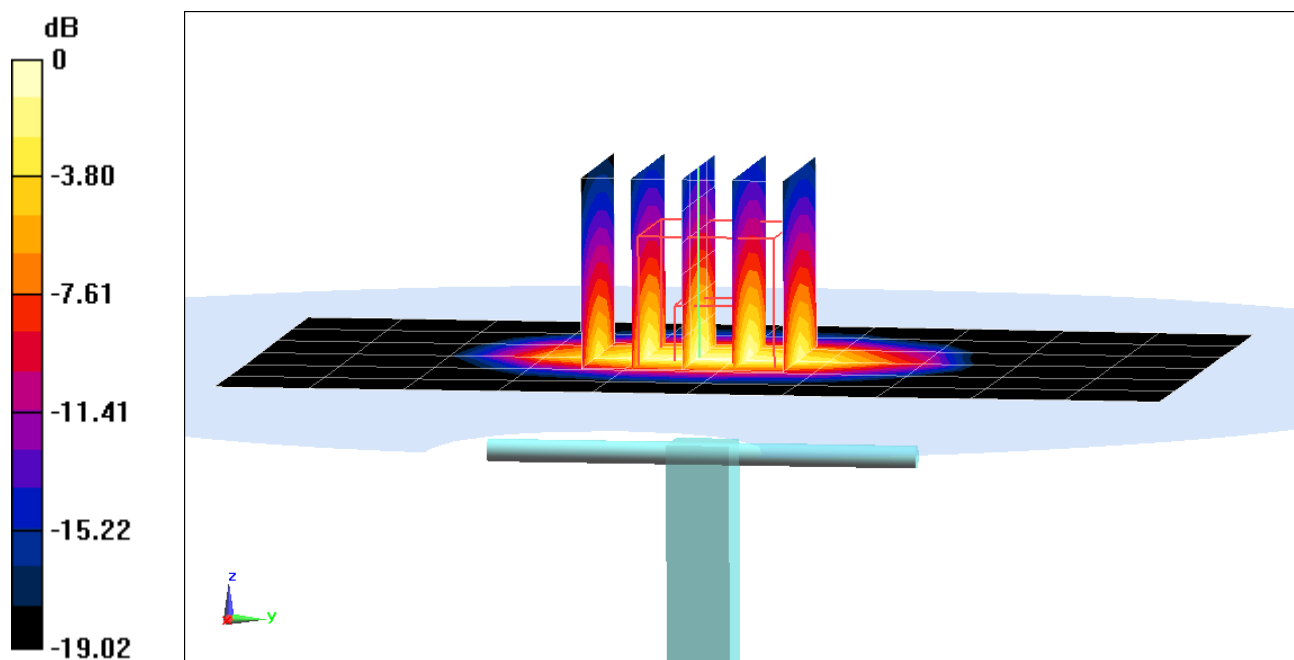
Area Scan (7x11x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Peak SAR (extrapolated) = 8.19 W/kg

SAR(1 g) = 4.17 W/kg

Deviation(1 g) = 6.11%



0 dB = 6.66 W/kg = 8.23 dBW/kg

PCTEST

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 882

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: 2450 Head Medium parameters used:

$f = 2450 \text{ MHz}$; $\sigma = 1.87 \text{ S/m}$; $\epsilon_r = 38.215$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 1.0 cm

Test Date: 05/10/2021; Ambient Temp: 20.6°C; Tissue Temp: 21.9°C

Probe: EX3DV4 - SN7527; ConvF(7.45, 7.45, 7.45) @ 2450 MHz; Calibrated: 3/16/2021

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1466; Calibrated: 11/6/2020

Phantom: Twin-SAM V5.0 (30); Type: QD 000 P40 CD; Serial: 1868

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

2450 MHz System Verification at 20.0 dBm (100 mW)

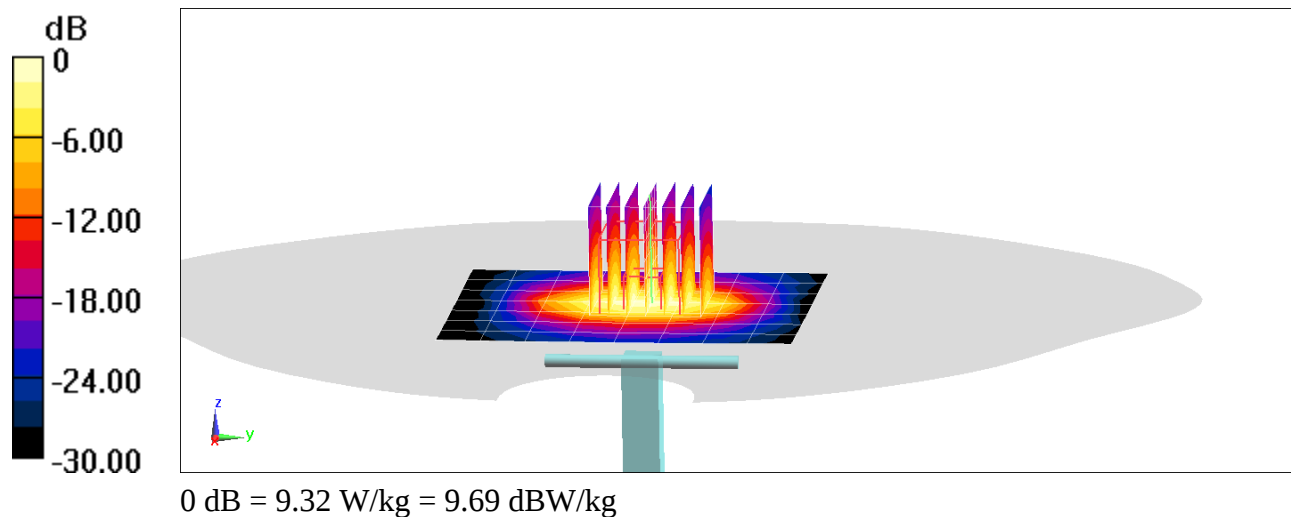
Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Peak SAR (extrapolated) = 12.1 W/kg

SAR(1 g) = 5.41 W/kg

Deviation(1 g) = 3.05%



PCTEST

DUT: Dipole 2450.0 MHz; Type: D2450V2; Serial: 981

Communication System: UID: 0--, CW; Frequency: 2450.0 MHz
Medium: 2450 Head; Medium parameters used:
f = 2450.0 MHz; cond = 1.86 S/m; perm = 39.3; density = 1000 kg/m³
Phantom Section: Flat; Space: 1.0 cm

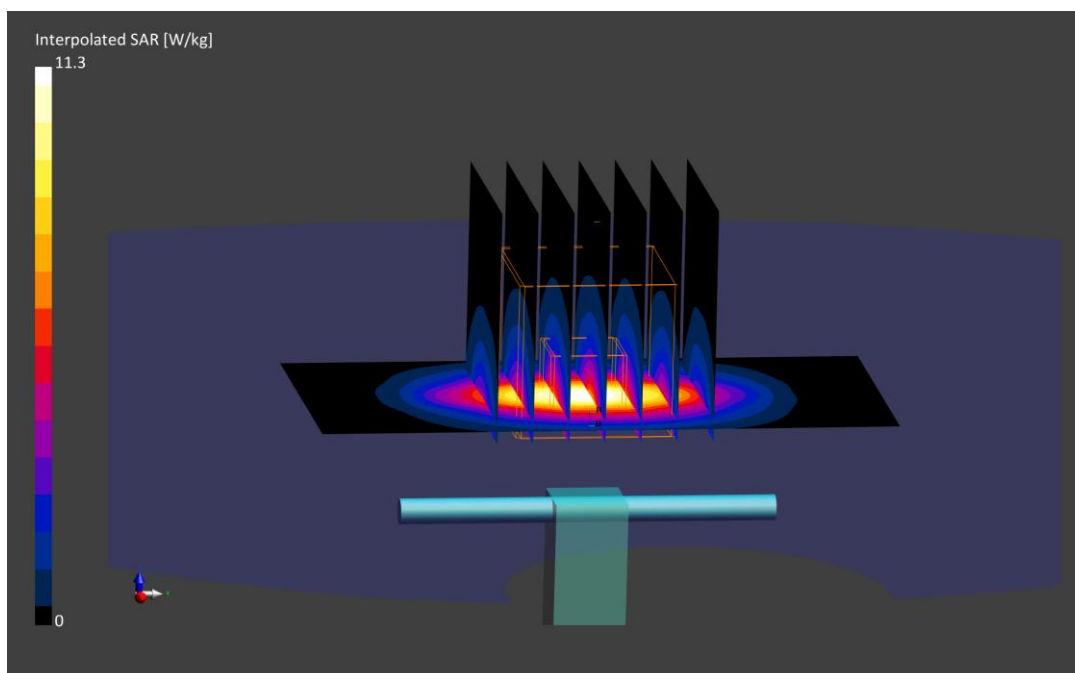
Test Date: 06/01/2021; Ambient Temp: 23.3°C; Tissue Temp: 21.7°C

Probe: EX3DV4 - SN7539; ConvF:(7.43,7.43,7.43); 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

2450.0 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 (30.0 x 30.0 x 30.0): Measurement grid: dx=5.0mm, dy=5.0mm, dz=1.5mm; Graded Ratio: 1.5
Peak SAR (extrapolated) = 11.3 W/kg
SAR(1 g) = 5.34 W/kg
Deviation (1 g) = 2.10%



PCTEST

DUT: Dipole 2600.0 MHz; Type: D2600V2; Serial: 1071

Communication System: UID: 0--, CW; Frequency: 2600.0 MHz
Medium: 2450 Head; Medium parameters used:
f = 2600.0 MHz; cond = 1.97 S/m; perm = 39.1; density = 1000 kg/m³
Phantom Section: Flat; Space: 1.0 cm

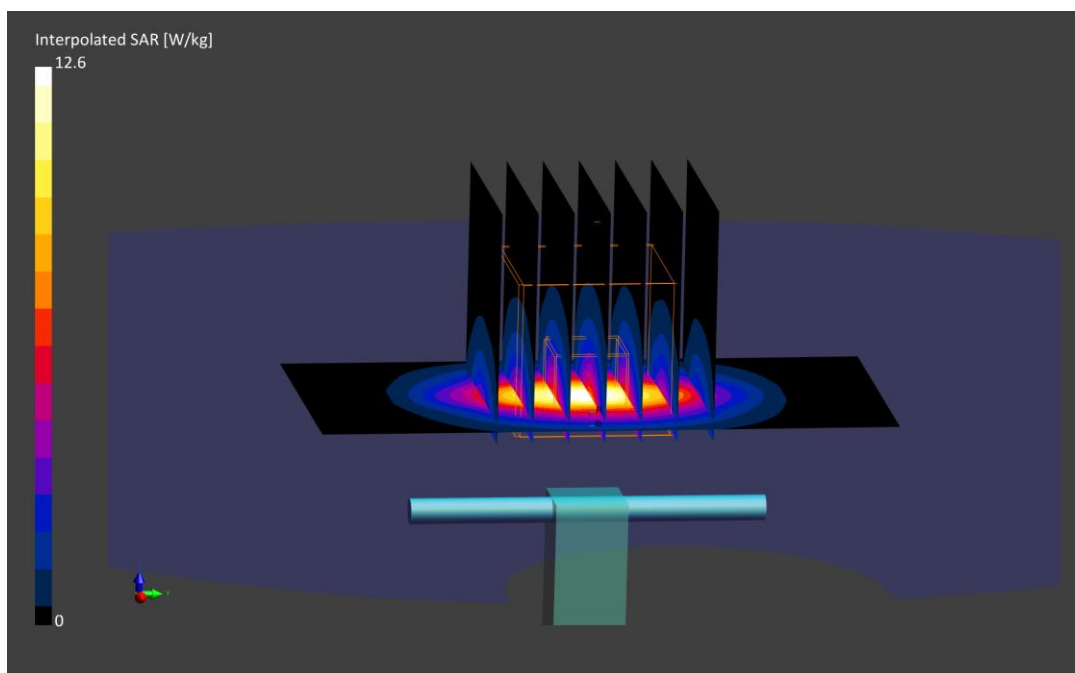
Test Date: 06/01/2021; Ambient Temp: 23.3°C; Tissue Temp: 21.7°C

Probe: EX3DV4 - SN7539; ConvF:(7.18,7.18,7.18); 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

2600.0 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 (30.0 x 30.0 x 30.0): Measurement grid: dx=5.0mm, dy=5.0mm, dz=1.5mm; Graded Ratio: 1.5
Peak SAR (extrapolated) = 12.6 W/kg
SAR(1 g) = 5.69 W/kg
Deviation (1 g) = 1.43%



PCTEST

DUT: Dipole 5250 MHz; Type: D5GHzV2; Serial:1120

Communication System: UID 0, CW; Frequency: 5250 MHz; Duty Cycle: 1:1
Medium: 5200-5800 Head Medium parameters used:
 $f = 5250 \text{ MHz}$; $\sigma = 4.617 \text{ S/m}$; $\epsilon_r = 35.179$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/13/2021; Ambient Temp: 19.6°C; Tissue Temp: 20.2°C

Probe: EX3DV4 - SN7637; ConvF(5.78, 5.78, 5.78) @ 5250 MHz; Calibrated: 3/3/2021
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1652; Calibrated: 3/1/2021
Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1626
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

5250 MHz System Verification at 17.0 dBm (50 mW)

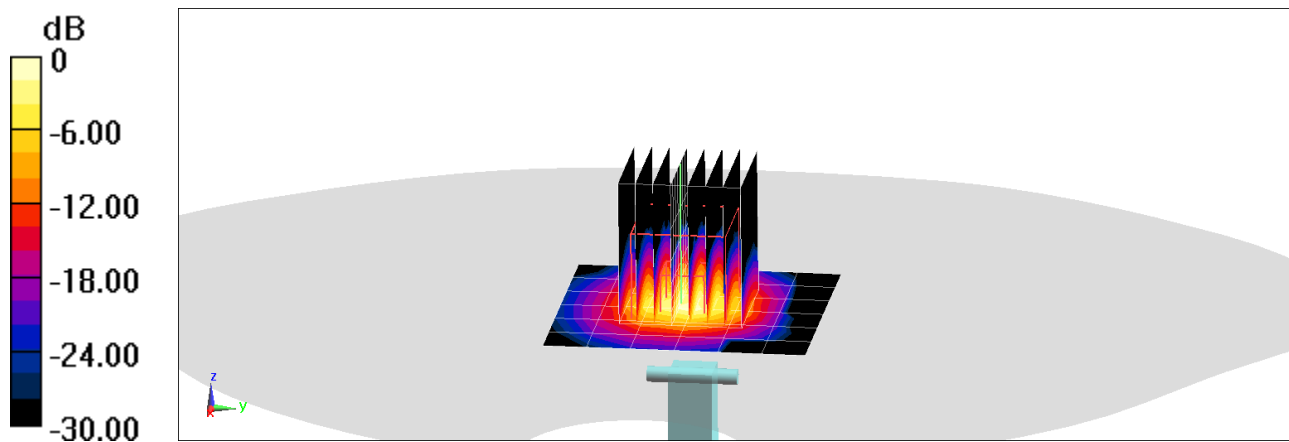
Area Scan (7x7x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Zoom Scan (8x8x8)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$; Graded Ratio: 1.4

Peak SAR (extrapolated) = 15.1 W/kg

SAR(1 g) = 3.87 W/kg

Deviation(1 g) = -5.38%



0 dB = 9.38 W/kg = 9.72 dBW/kg

PCTEST

DUT: Dipole 5600 MHz; Type: D5GHzV2; Serial: 1120

Communication System: UID 0, CW; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: 5200-5800 Head Medium parameters used:

$f = 5600$ MHz; $\sigma = 5.006$ S/m; $\epsilon_r = 34.509$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/13/2021; Ambient Temp: 19.6°C; Tissue Temp: 20.2°C

Probe: EX3DV4 - SN7637; ConvF(5.15, 5.15, 5.15) @ 5600 MHz; Calibrated: 3/3/2021

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1652; Calibrated: 3/1/2021

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1626

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

5600 MHz System Verification at 17.0 dBm (50 mW)

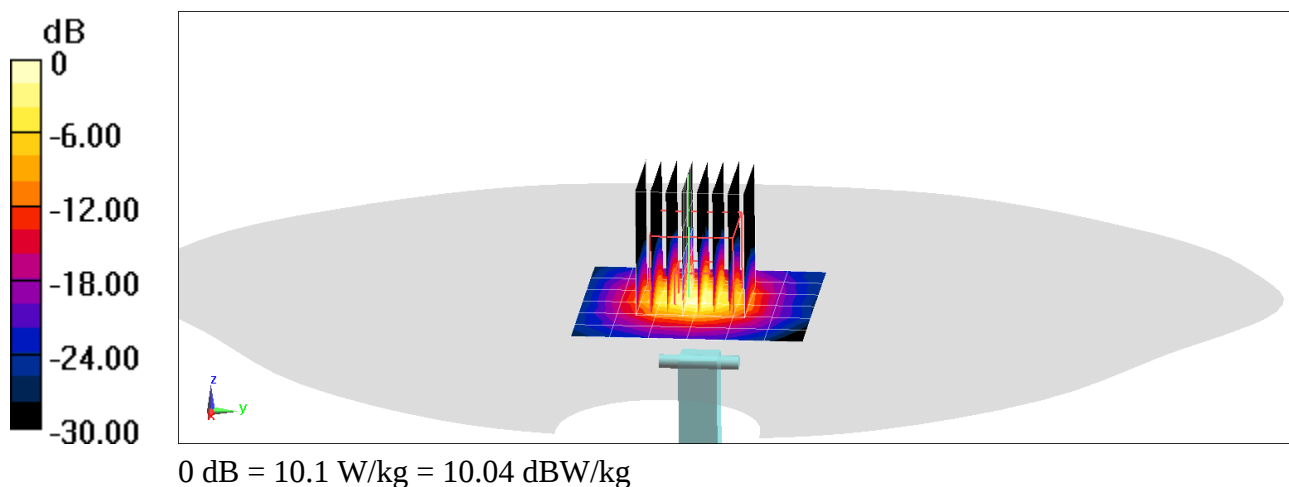
Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm

Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 17.8 W/kg

SAR(1 g) = 4.12 W/kg

Deviation(1 g) = -2.49%



PCTEST

DUT: Dipole 5750 MHz; Type: D5GHzV2; Serial: 1120

Communication System: UID 0, CW; Frequency: 5750 MHz; Duty Cycle: 1:1

Medium: 5200-5800 Head Medium parameters used:

$f = 5750$ MHz; $\sigma = 5.191$ S/m; $\epsilon_r = 34.371$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/13/2021; Ambient Temp: 19.6°C; Tissue Temp: 20.2°C

Probe: EX3DV4 - SN7637; ConvF(5.25, 5.25, 5.25) @ 5750 MHz; Calibrated: 3/3/2021

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1652; Calibrated: 3/1/2021

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1626

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

5750 MHz System Verification at 17.0 dBm (50 mW)

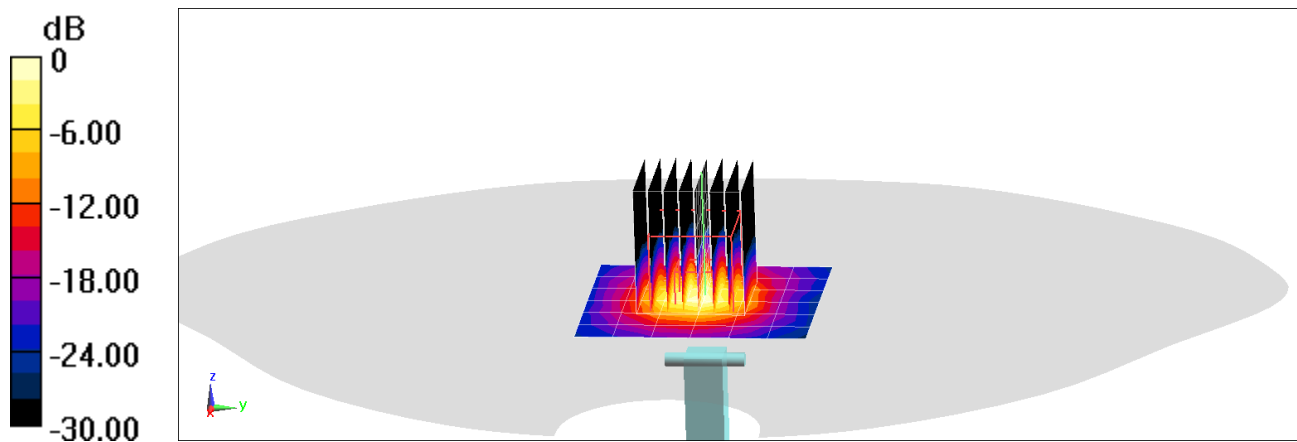
Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm

Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 17.3 W/kg

SAR(1 g) = 3.99 W/kg

Deviation(1 g) = -1.72%



0 dB = 9.55 W/kg = 9.80 dBW/kg

PCTEST

DUT: Dipole 750 MHz; Type: D750V3; Serial: 1003

Communication System: UID 0, CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: 750 Body Medium parameters used:

$f = 750 \text{ MHz}$; $\sigma = 0.982 \text{ S/m}$; $\epsilon_r = 54.029$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 05/04/2021; Ambient Temp: 23.4°C; Tissue Temp: 22.8°C

Probe: EX3DV4 - SN7406; ConvF(9.66, 9.66, 9.66) @ 750 MHz; Calibrated: 6/23/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1583; Calibrated: 5/14/2020

Phantom: Front; Type: QD 000 P40 CD; Serial: 1686

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

750 MHz System Verification at 23.0 dBm (200 mW)

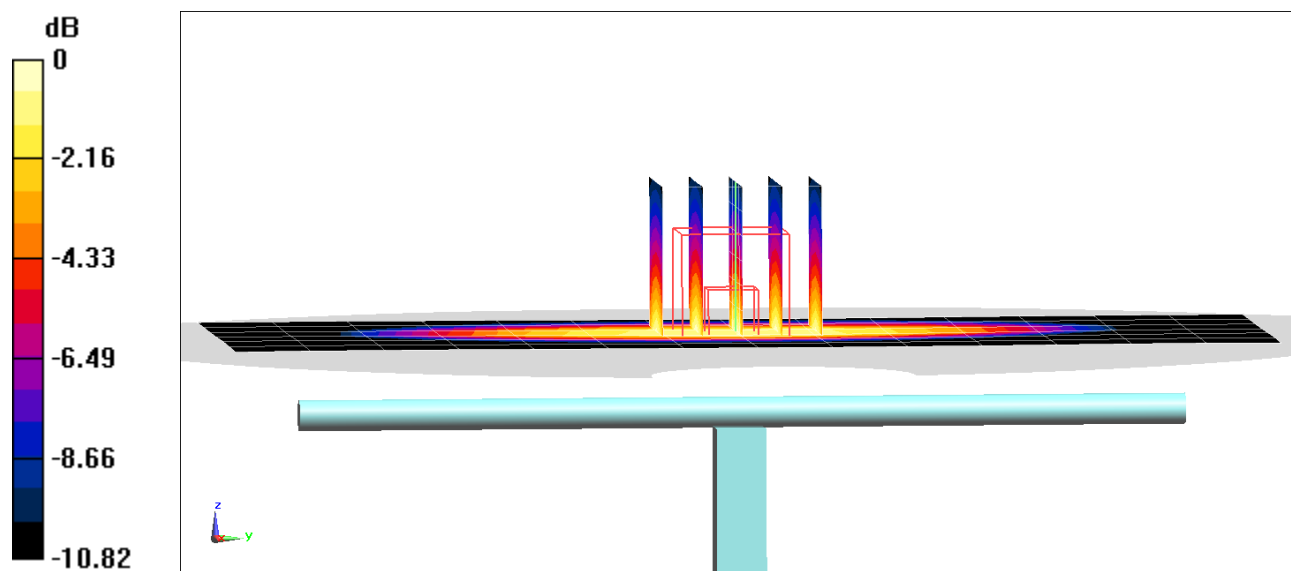
Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 2.88 W/kg

SAR(1 g) = 1.79 W/kg; SAR(10 g) = 1.16 W/kg

Deviation(1 g) = 3.95%; Deviation(10 g) = 2.29%



PCTEST

DUT: Dipole 750 MHz; Type: D750V3; Serial: 1003

Communication System: UID 0, CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: 750 Body Medium parameters used:

$f = 750 \text{ MHz}$; $\sigma = 0.966 \text{ S/m}$; $\epsilon_r = 54.459$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 05/06/2021; Ambient Temp: 23.2°C; Tissue Temp: 22.3°C

Probe: EX3DV4 - SN7406; ConvF(9.66, 9.66, 9.66) @ 750 MHz; Calibrated: 6/23/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1583; Calibrated: 5/14/2020

Phantom: Front; Type: QD 000 P40 CD; Serial: 1686

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

750 MHz System Verification at 23.0 dBm (200 mW)

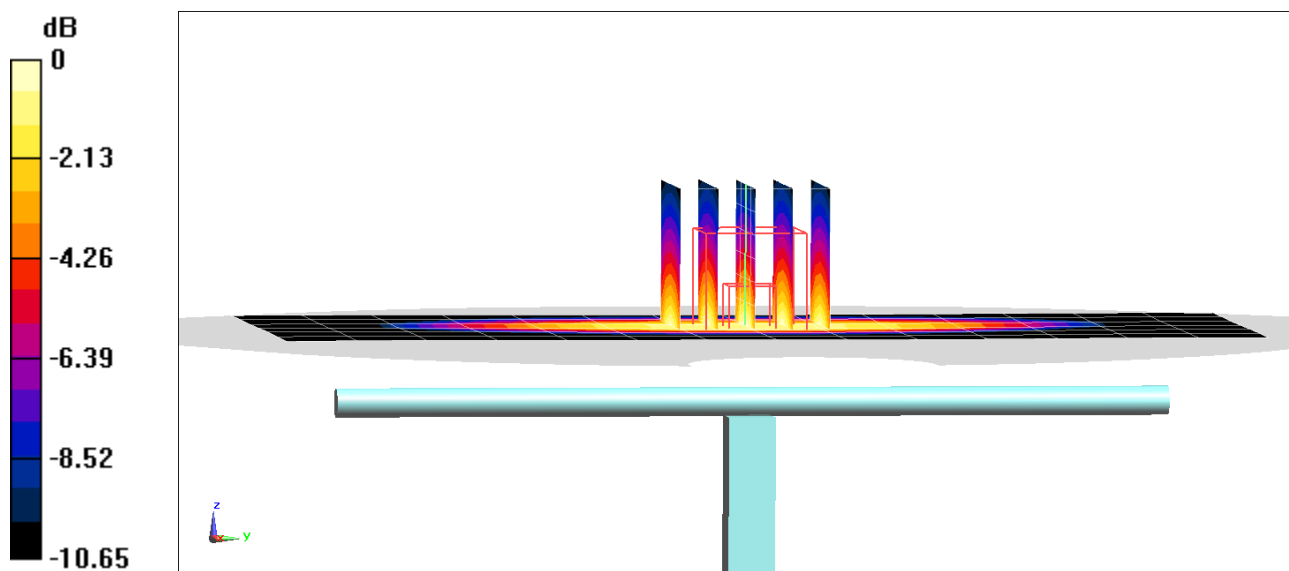
Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 2.88 W/kg

SAR(1 g) = 1.81 W/kg

Deviation(1 g) = 5.11%



0 dB = 2.48 W/kg = 3.94 dBW/kg

PCTEST

DUT: Dipole 750 MHz; Type: D750V3; Serial: 1003

Communication System: UID 0, CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: 750 Body Medium parameters used:

$f = 750 \text{ MHz}$; $\sigma = 0.951 \text{ S/m}$; $\epsilon_r = 54.192$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5cm

Test Date: 05/09/2021; Ambient Temp: 22.4°C; Tissue Temp: 21.7°C

Probe: EX3DV4 - SN7406; ConvF(9.66, 9.66, 9.66) @ 750 MHz; Calibrated: 6/23/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1583; Calibrated: 5/14/2020

Phantom: Front; Type: QD 000 P40 CD; Serial: 1686

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

750 MHz System Verification at 23.0 dBm (200 mW)

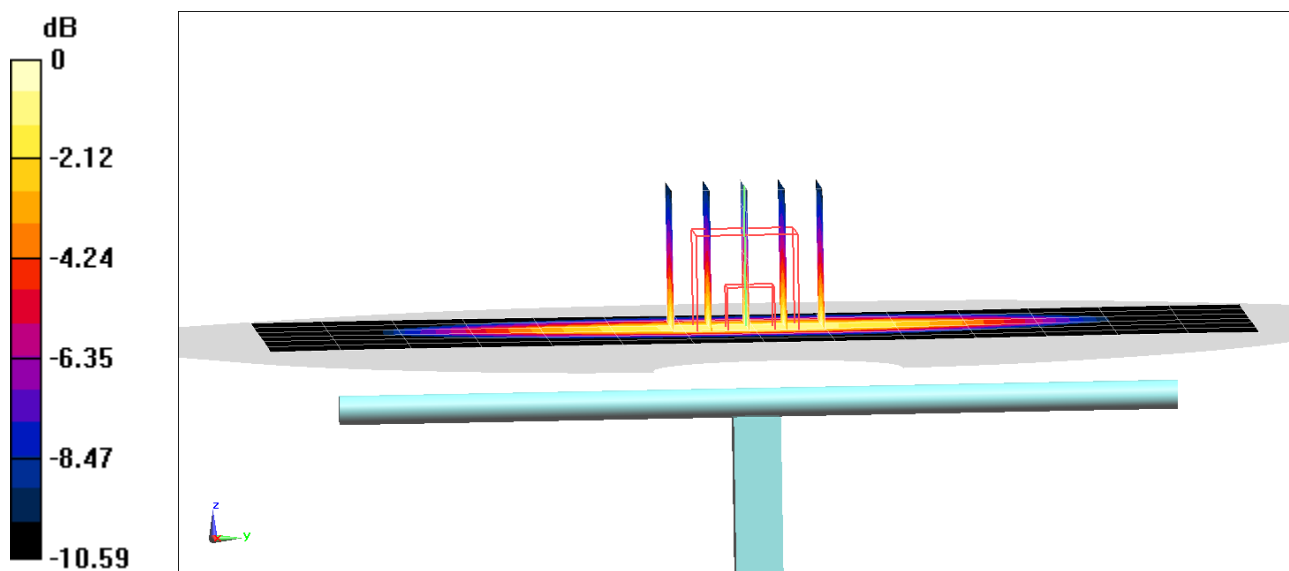
Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 2.93 W/kg

SAR(10 g) = 1.19 W/kg

Deviation(10 g) = 4.94%



0 dB = 2.53 W/kg = 4.03 dBW/kg

PCTEST

DUT: Dipole 750 MHz; Type: D750V3; Serial: 1003

Communication System: UID 0, CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: 750 Body Medium parameters used:

$f = 750 \text{ MHz}$; $\sigma = 0.983 \text{ S/m}$; $\epsilon_r = 54.697$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 05/31/2021; Ambient Temp: 23.8°C; Tissue Temp: 23.0°C

Probe: EX3DV4 - SN7357; ConvF(10.29, 10.29, 10.29) @ 750 MHz; Calibrated: 4/19/2021

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1407; Calibrated: 4/7/2021

Phantom: Front; Type: QD 000 P40 CD; Serial: 1686

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

750 MHz System Verification at 23.0 dBm (200 mW)

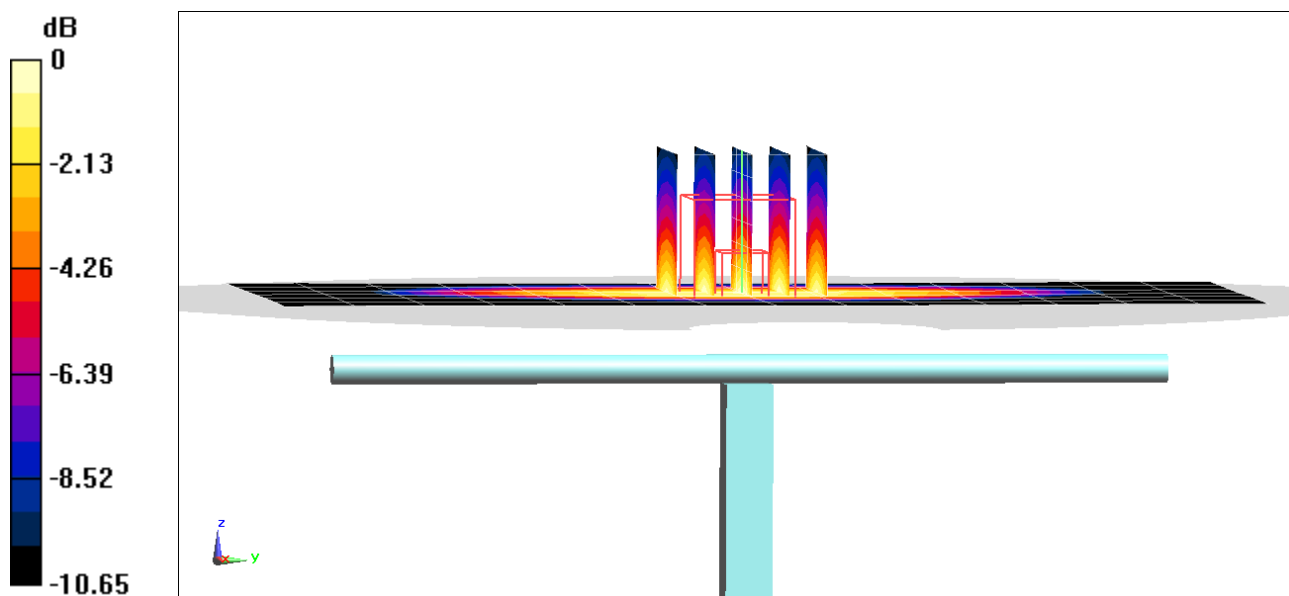
Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 2.74 W/kg

SAR(1 g) = 1.74 W/kg

Deviation(1 g) = 1.05%



PCTEST

DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d047

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: 835 Body Medium parameters used:

$f = 835 \text{ MHz}$; $\sigma = 0.962 \text{ S/m}$; $\epsilon_r = 53.692$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 05/12/2021; Ambient Temp: 24.7°C; Tissue Temp: 21.8°C

Probe: EX3DV4 - SN7308; ConvF(9.92, 9.92, 9.92) @ 835 MHz; Calibrated: 7/31/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1450; Calibrated: 8/11/2020

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1792

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

835 MHz System Verification at 23.0 dBm (200 mW)

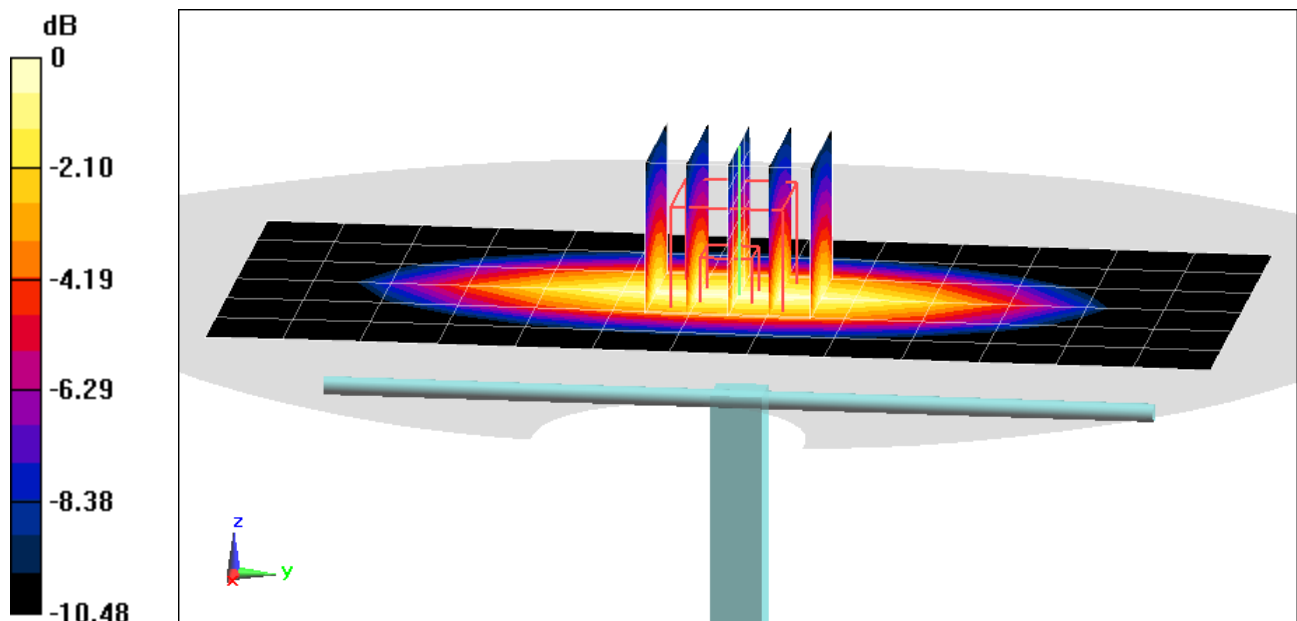
Area Scan (7x14x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Peak SAR (extrapolated) = 3.01 W/kg

SAR(1 g) = 1.97 W/kg; SAR(10 g) = 1.3 W/kg

Deviation(1 g) = 4.01%; Deviation(10 g) = 3.67%



0 dB = 2.64 W/kg = 4.22 dBW/kg

PCTEST

DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d047

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: 835 Body Medium parameters used:

$f = 835 \text{ MHz}$; $\sigma = 0.957 \text{ S/m}$; $\epsilon_r = 53.092$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 05/15/2021; Ambient Temp: 23.5°C; Tissue Temp: 20.8°C

Probe: EX3DV4 - SN7308; ConvF(9.92, 9.92, 9.92) @ 835 MHz; Calibrated: 7/31/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1450; Calibrated: 8/11/2020

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1792

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

835 MHz System Verification at 23.0 dBm (200 mW)

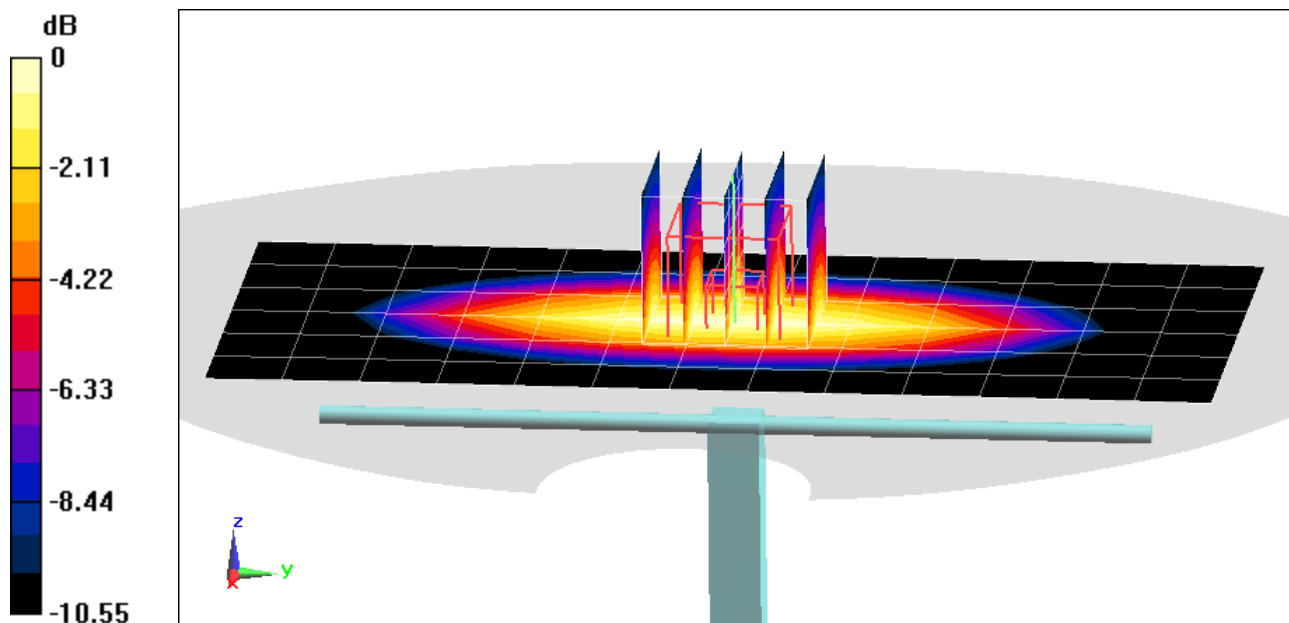
Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 2.93 W/kg

SAR(1 g) = 1.89 W/kg; SAR(10 g) = 1.25 W/kg

Deviation(1 g) = -0.21%; Deviation(10 g) = -0.32%



0 dB = 2.56 W/kg = 4.08 dBW/kg

PCTEST

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: 1148

Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: 1750 Body Medium parameters used:

$f = 1750 \text{ MHz}$; $\sigma = 1.464 \text{ S/m}$; $\epsilon_r = 50.886$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/06/2021; Ambient Temp: 21.7°C; Tissue Temp: 21.1°C

Probe: EX3DV4 - SN7410; ConvF(8.17, 8.17, 8.17) @ 1750 MHz; Calibrated: 7/20/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/15/2020

Phantom: Twin-SAM V5.0 Left 20; Type: QD 000 P40 CD; Serial: 1715

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

1750 MHz System Verification at 20.0 dBm (100 mW)

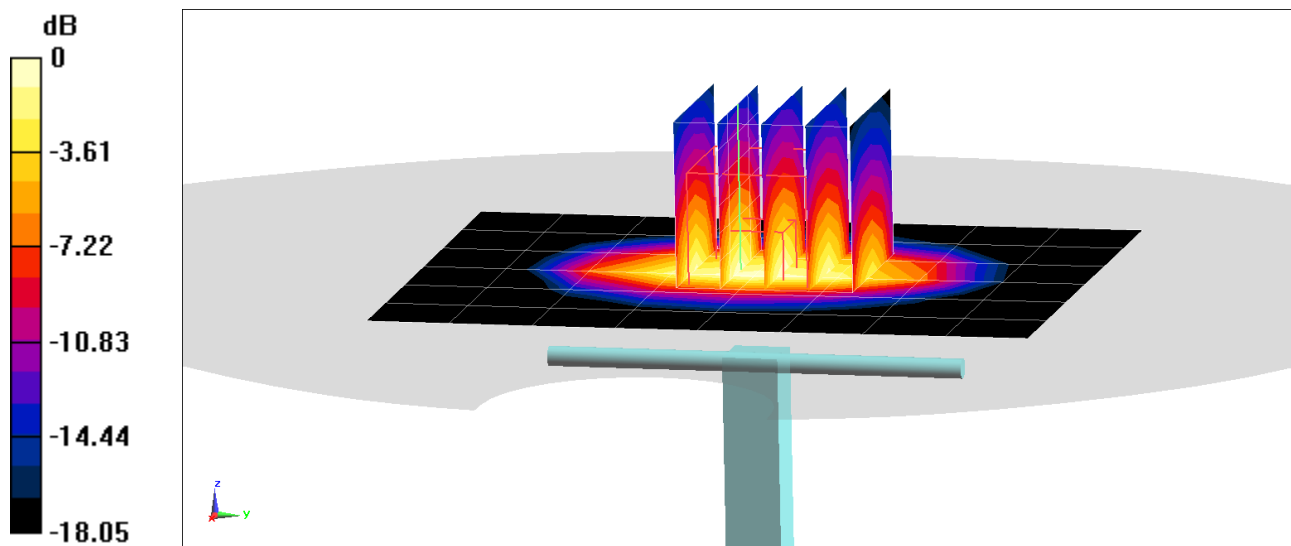
Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 6.74 W/kg

SAR(1 g) = 3.7 W/kg

Deviation(1 g) = 1.93%



0 dB = 5.50 W/kg = 7.40 dBW/kg

PCTEST

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: 1150

Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: 1750 Body Medium parameters used:

$f = 1750 \text{ MHz}$; $\sigma = 1.528 \text{ S/m}$; $\epsilon_r = 51.562$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/10/2021; Ambient Temp: 22.7°C; Tissue Temp: 22.9°C

Probe: EX3DV4 - SN7571; ConvF(8.09, 8.09, 8.09) @ 1750 MHz; Calibrated: 12/11/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1533; Calibrated: 12/7/2020

Phantom: SAM 5.0 front; Type: QD000P40CD; Serial: 1648

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

1750 MHz System Verification at 20.0 dBm (100 mW)

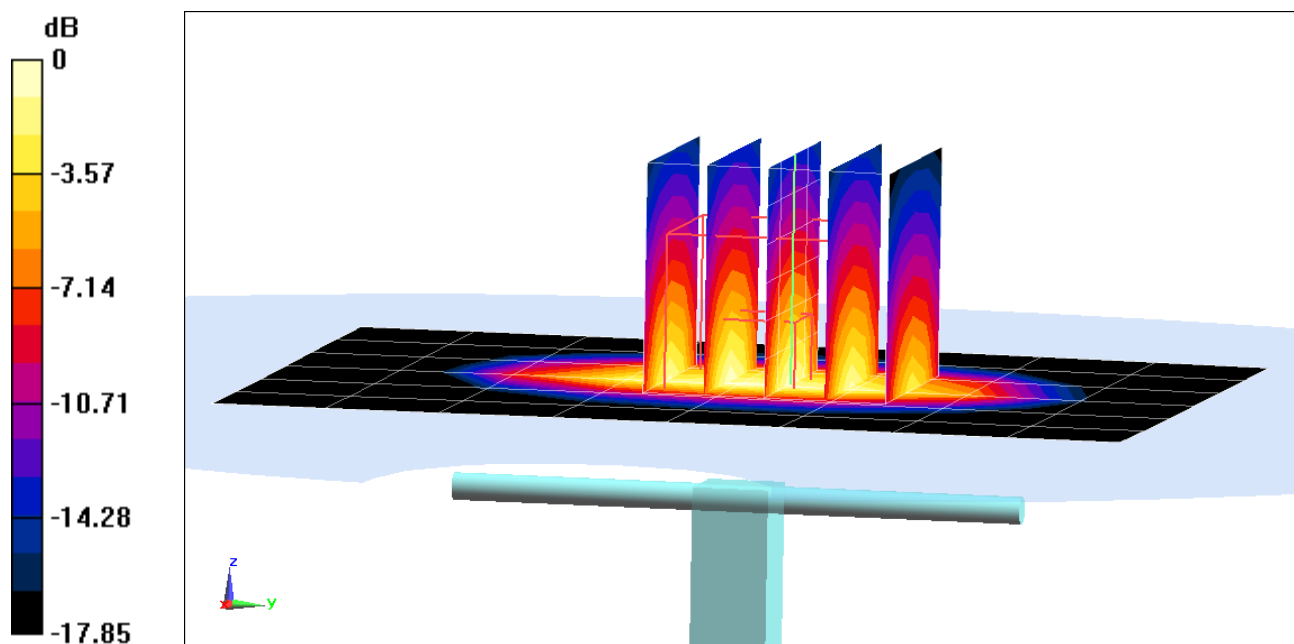
Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 6.92 W/kg

SAR(1 g) = 3.73 W/kg

Deviation(1 g) = 1.91%



0 dB = 5.72 W/kg = 7.57 dBW/kg

PCTEST

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: 1150

Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: 1750 Body Medium parameters used:

$f = 1750 \text{ MHz}$; $\sigma = 1.506 \text{ S/m}$; $\epsilon_r = 50.858$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/12/2021; Ambient Temp: 24.3°C; Tissue Temp: 23.2°C

Probe: EX3DV4 - SN7571; ConvF(8.09, 8.09, 8.09) @ 1750 MHz; Calibrated: 12/11/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1533; Calibrated: 12/7/2020

Phantom: SAM 5.0 front; Type: QD000P40CD; Serial: 1648

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

1750 MHz System Verification at 20.0 dBm (100 mW)

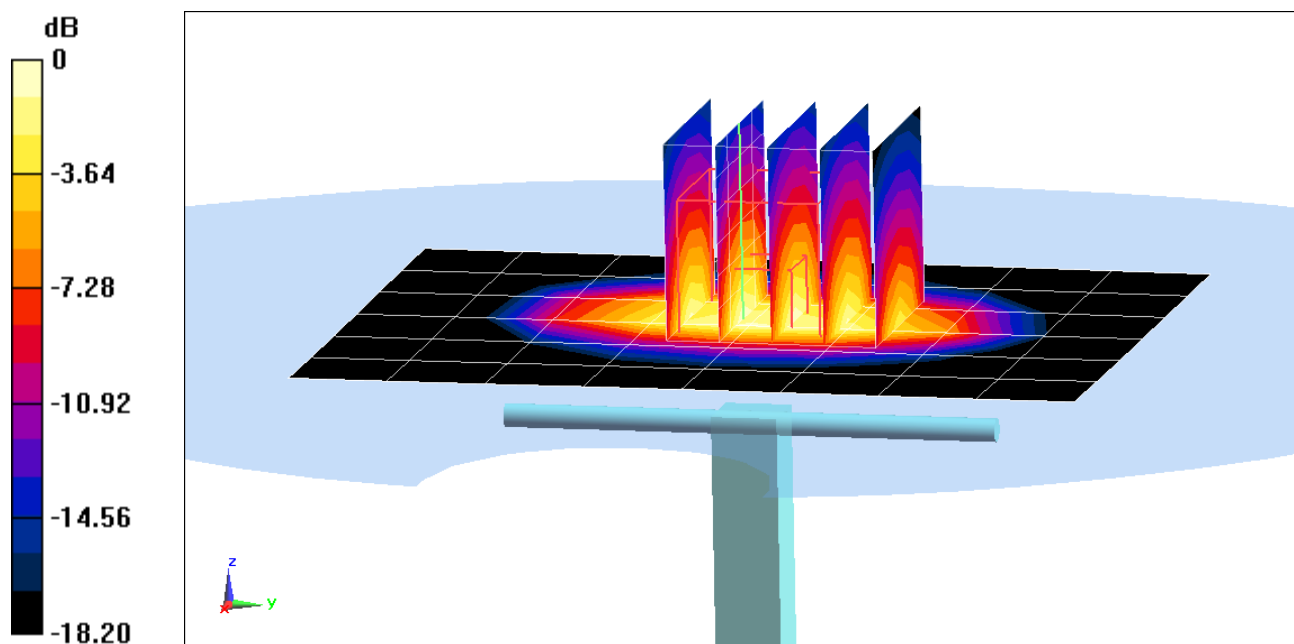
Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 7.24 W/kg

SAR(1 g) = 3.83 W/kg

Deviation(1 g) = 4.64%



0 dB = 5.88 W/kg = 7.69 dBW/kg

PCTEST

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: 1148

Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: 1750 Body Medium parameters used:

$f = 1750 \text{ MHz}$; $\sigma = 1.539 \text{ S/m}$; $\epsilon_r = 50.961$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/24/2021; Ambient Temp: 22.2°C; Tissue Temp: 21.3°C

Probe: EX3DV4 - SN7410; ConvF(8.17, 8.17, 8.17) @ 1750 MHz; Calibrated: 7/20/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/15/2020

Phantom: Twin-SAM V5.0 Left 20; Type: QD 000 P40 CD; Serial: 1715

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

1750 MHz System Verification at 20.0 dBm (100 mW)

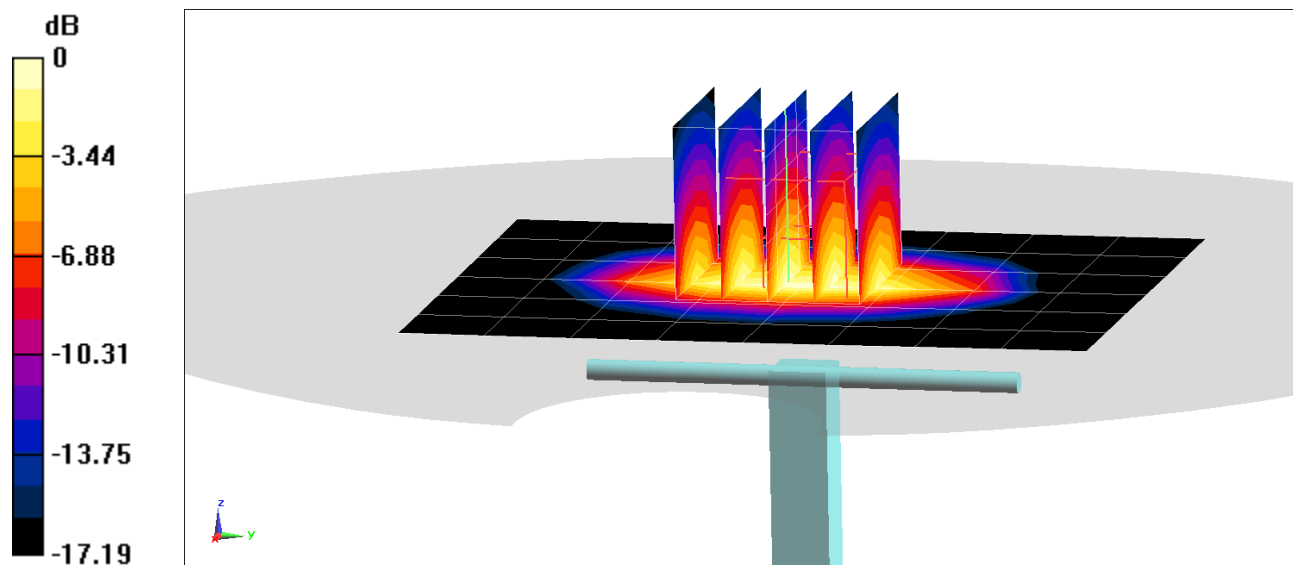
Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 6.47 W/kg

SAR(1 g) = 3.6 W/kg

Deviation(1 g) = -0.83%



PCTEST

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: 1148

Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: 1750 Body Medium parameters used:

$f = 1750 \text{ MHz}$; $\sigma = 1.473 \text{ S/m}$; $\epsilon_r = 50.984$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 06/03/2021; Ambient Temp: 23.0°C; Tissue Temp: 23.4°C

Probe: EX3DV4 - SN7410; ConvF(8.17, 8.17, 8.17) @ 1750 MHz; Calibrated: 7/20/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/15/2020

Phantom: Twin-SAM V5.0 Left 20; Type: QD 000 P40 CD; Serial: 1715

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

1750 MHz System Verification at 20.0 dBm (100 mW)

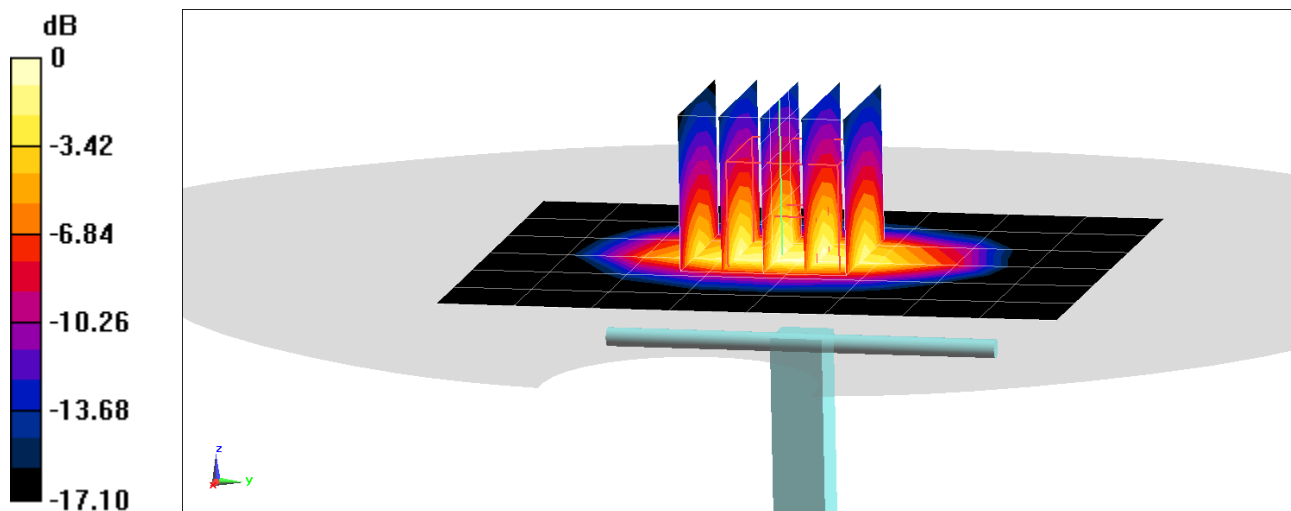
Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 6.39 W/kg

SAR(1 g) = 3.56 W/kg

Deviation(1 g) = -1.93%



0 dB = 5.37 W/kg = 7.30 dBW/kg

PCTEST

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: 1150

Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: 1750 Body Medium parameters used:

$f = 1750 \text{ MHz}$; $\sigma = 1.482 \text{ S/m}$; $\epsilon_r = 52.252$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 06/06/2021; Ambient Temp: 22.3°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7357; ConvF(8.12, 8.12, 8.12) @ 1750 MHz; Calibrated: 4/19/2021

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1407; Calibrated: 4/7/2021

Phantom: Front; Type: QD 000 P40 CD; Serial: 1686

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

1750 MHz System Verification at 20.0 dBm (100 mW)

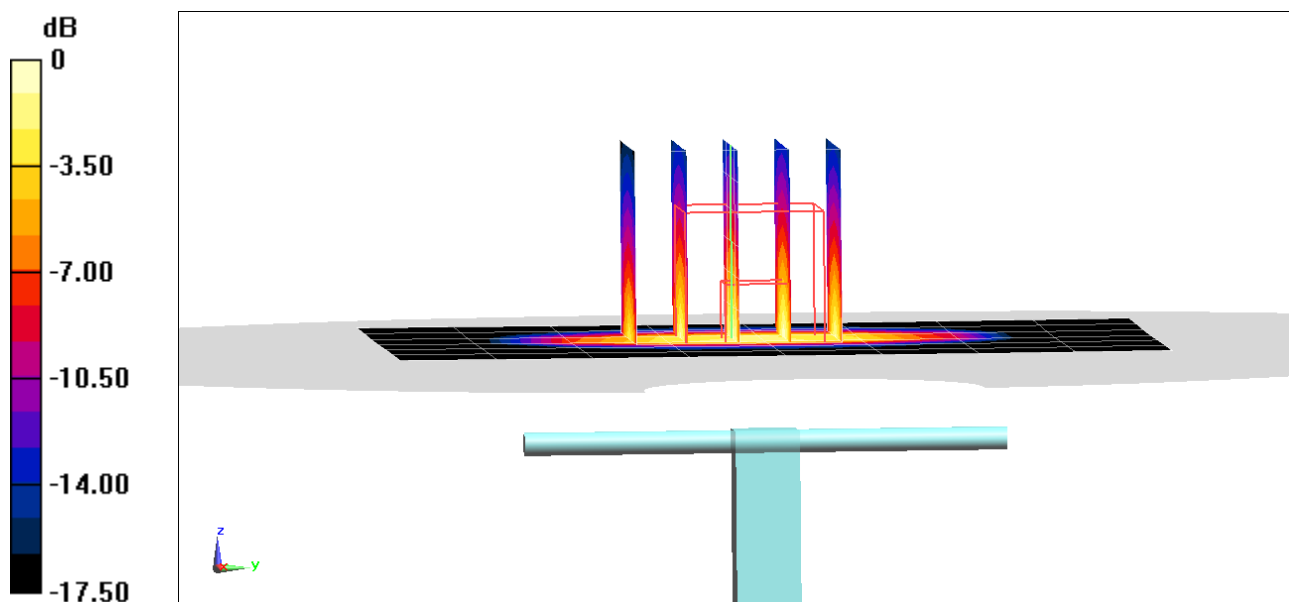
Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 6.96 W/kg

SAR(1 g) = 3.85 W/kg; SAR(10 g) = 2.04 W/kg

Deviation(1 g) = 5.19%; Deviation(10 g) = 5.15%



0 dB = 5.77 W/kg = 7.61 dBW/kg

PCTEST

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: 1150

Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: 1750 Body; Medium parameters used:

$f = 1750 \text{ MHz}$; $\sigma = 1.534 \text{ S/m}$; $\epsilon_r = 51.554$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 06/07/2021; Ambient Temp: 21.9°C; Tissue Temp: 22.7°C

Probe: EX3DV4 - SN7410; ConvF(8.17, 8.17, 8.17) @ 1750 MHz; Calibrated: 7/20/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/15/2020

Phantom: Twin-SAM V5.0 Left 20; Type: QD 000 P40 CD; Serial: 1715

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

1750 MHz System Verification at 20.0 dBm (100 mW)

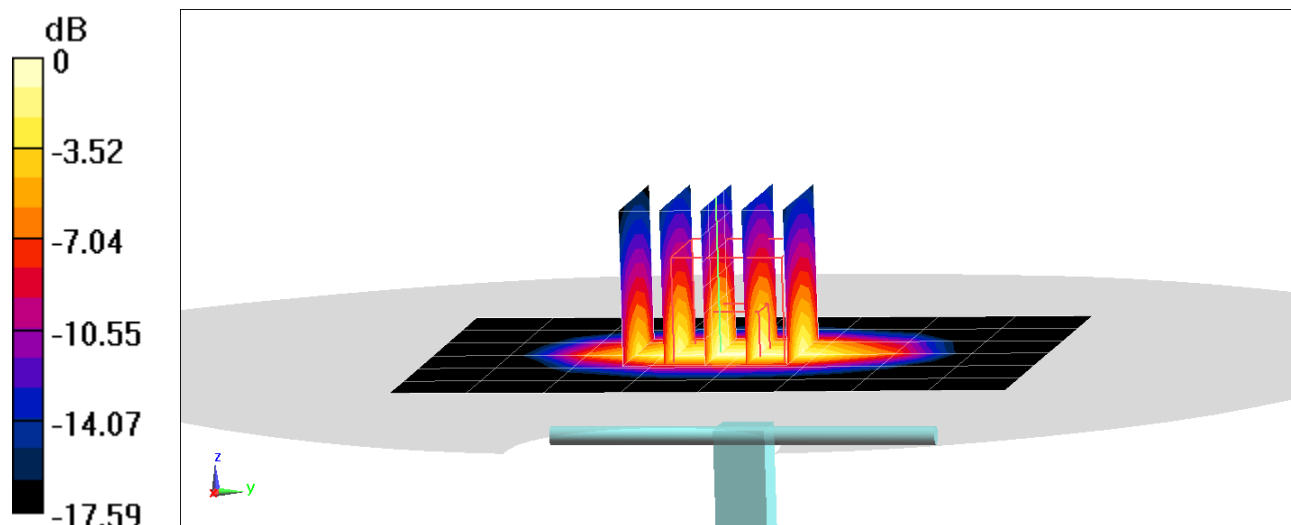
Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 7.05 W/kg

SAR(1 g) = 3.88 W/kg

Deviation(1 g)= 6.01%



0 dB = 5.83 W/kg = 7.66 dBW/kg

PCTEST

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: 1150

Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: 1750 Body Medium parameters used:

$f = 1750 \text{ MHz}$; $\sigma = 1.499 \text{ S/m}$; $\epsilon_r = 51.538$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 06/09/2021; Ambient Temp: 22.2°C; Tissue Temp: 22.9°C

Probe: EX3DV4 - SN7410; ConvF(8.17, 8.17, 8.17) @ 1750 MHz; Calibrated: 7/20/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/15/2020

Phantom: Twin-SAM V5.0 Left 20; Type: QD 000 P40 CD; Serial: 1715

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

1750 MHz System Verification at 20.0 dBm (100 mW)

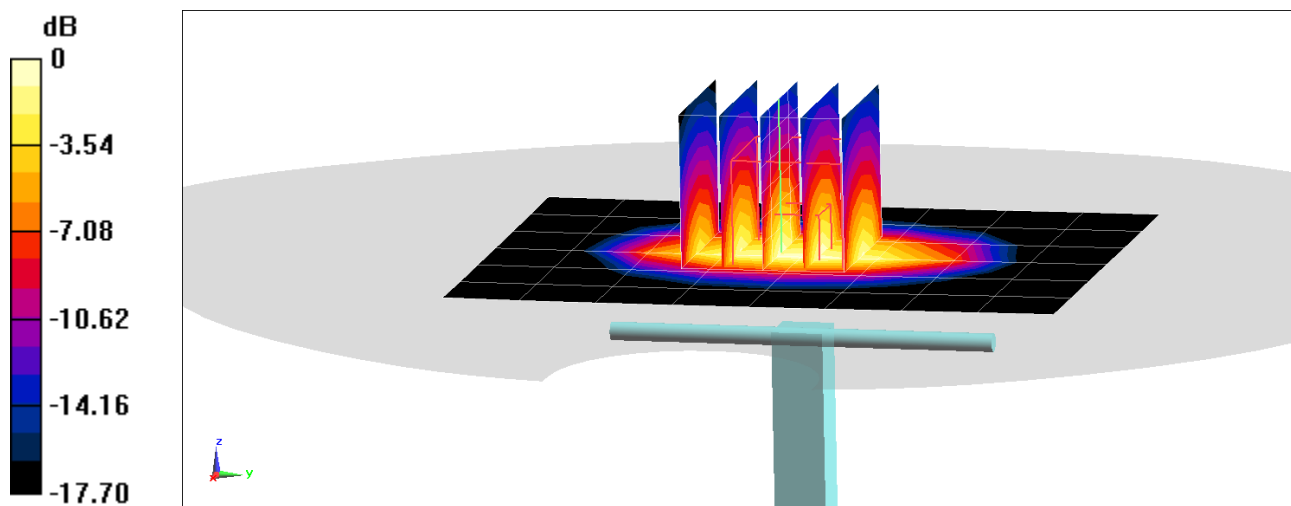
Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 7.25 W/kg

SAR(1 g) = 3.92 W/kg; SAR(10 g) = 2.07 W/kg

Deviation(1 g) = 7.10%; Deviation(10 g) = 6.70%



0 dB = 5.98 W/kg = 7.77 dBW/kg

PCTEST

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: 1150

Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: 1750 Body Medium parameters used:

$f = 1750$ MHz; $\sigma = 1.478$ S/m; $\epsilon_r = 51.624$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 06/11/2021; Ambient Temp: 22.6°C; Tissue Temp: 23.4°C

Probe: EX3DV4 - SN7410; ConvF(8.17, 8.17, 8.17) @ 1750 MHz; Calibrated: 7/20/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/15/2020

Phantom: Twin-SAM V5.0 Left 20; Type: QD 000 P40 CD; Serial: 1715

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

1750 MHz System Verification at 20.0 dBm (100 mW)

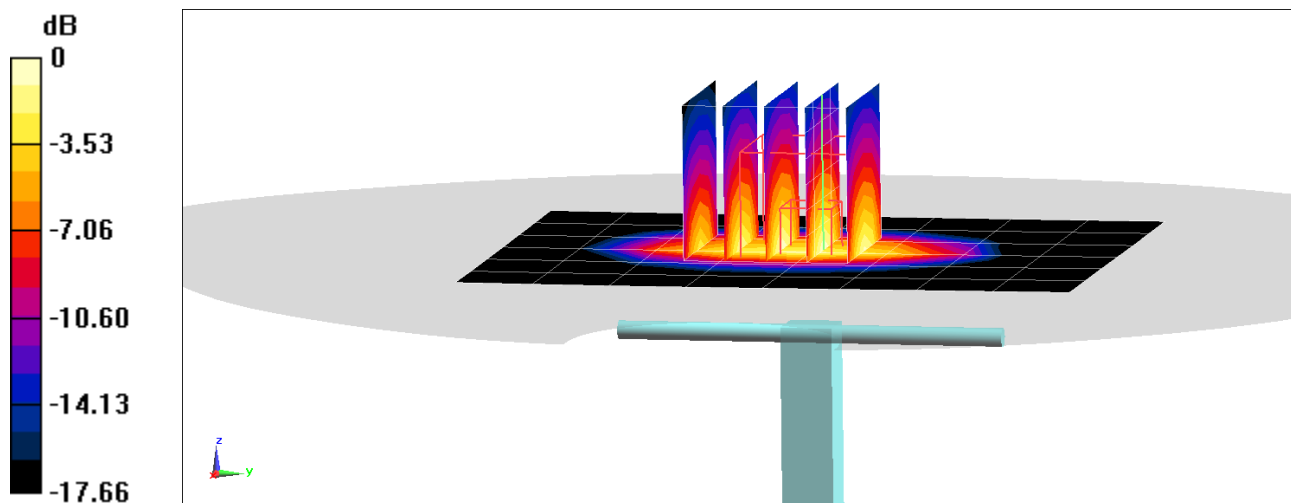
Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 6.57 W/kg

SAR(10 g) = 1.93 W/kg

Deviation(10 g) = -0.52%



0 dB = 5.50 W/kg = 7.40 dBW/kg

PCTEST

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: 1150

Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: 1750 Body Medium parameters used:

$f = 1750 \text{ MHz}$; $\sigma = 1.542 \text{ S/m}$; $\epsilon_r = 50.88$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 06/20/2021; Ambient Temp: 22.0°C; Tissue Temp: 21.2°C

Probe: EX3DV4 - SN7308; ConvF(8.2, 8.2, 8.2) @ 1750 MHz; Calibrated: 7/31/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1450; Calibrated: 8/11/2020

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1792

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

1750 MHz System Verification at 20.0 dBm (100 mW)

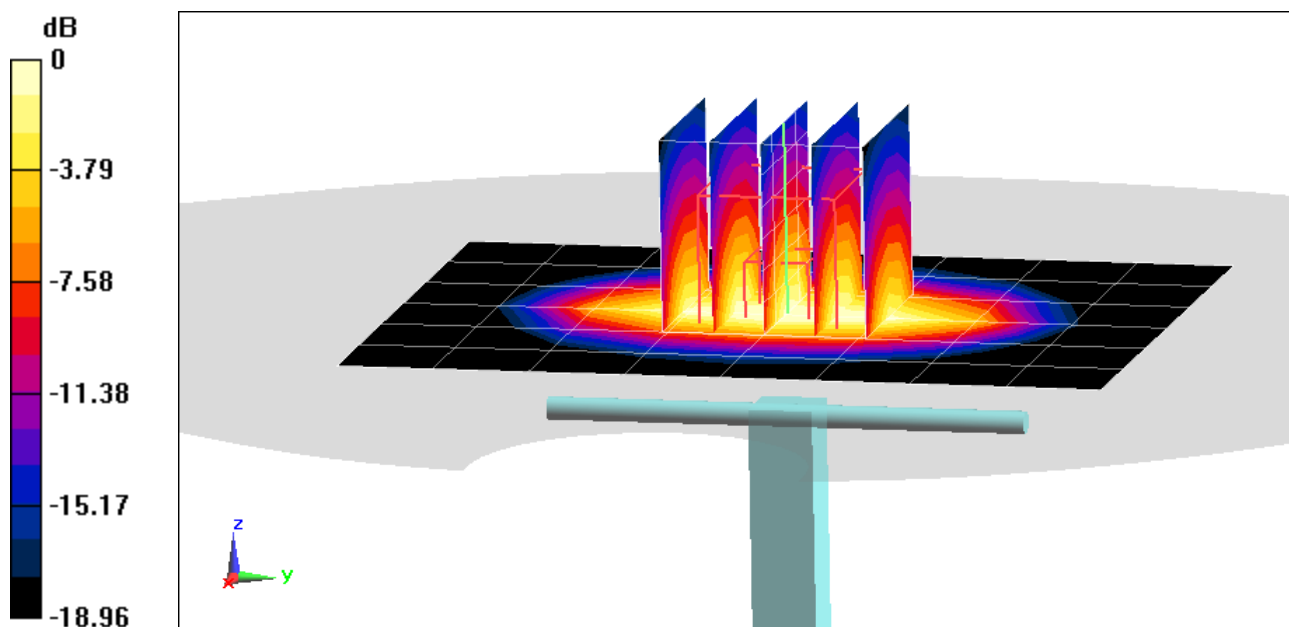
Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 7.04 W/kg

SAR(10 g) = 1.86 W/kg

Deviation(10 g) = -4.12%



0 dB = 5.59 W/kg = 7.47 dBW/kg

PCTEST

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d080

Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: 1900 Body Medium parameters used:

$f = 1900 \text{ MHz}$; $\sigma = 1.565 \text{ S/m}$; $\epsilon_r = 51.322$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/09/2021; Ambient Temp: 23.3°C; Tissue Temp: 22.2°C

Probe: EX3DV4 - SN3589; ConvF(6.84, 6.84, 6.84) @ 1900 MHz; Calibrated: 1/20/2021

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1558; Calibrated: 1/13/2021

Phantom: Twin-SAM V5.0 (30); Type: QD 000 P40 CD; Serial: 1646

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

1900 MHz System Verification at 20.0 dBm (100 mW)

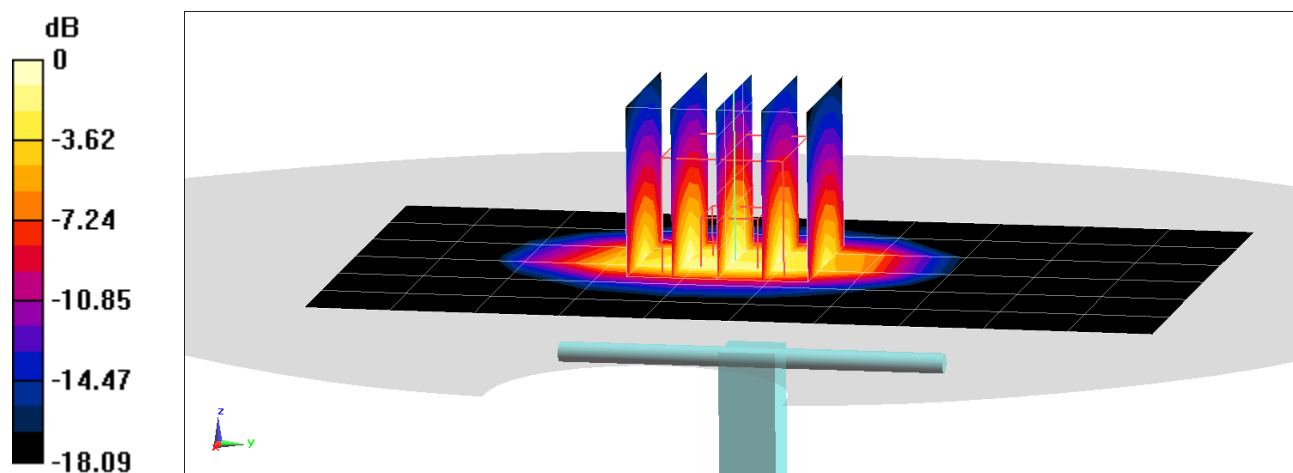
Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 7.94 W/kg

SAR(1 g) = 4.22 W/kg

Deviation(1 g) = 7.65%



0 dB = 6.65 W/kg = 8.23 dBW/kg

PCTEST

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d080

Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: 1900 Body Medium parameters used:

$f = 1900 \text{ MHz}$; $\sigma = 1.564 \text{ S/m}$; $\epsilon_r = 51.795$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/16/2021; Ambient Temp: 23.3°C; Tissue Temp: 22.9°C

Probe: EX3DV4 - SN3589; ConvF(6.84, 6.84, 6.84) @ 1900 MHz; Calibrated: 1/20/2021

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1558; Calibrated: 1/13/2021

Phantom: Twin-SAM V5.0 (30); Type: QD 000 P40 CD; Serial: 1646

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

1900 MHz System Verification at 20.0 dBm (100 mW)

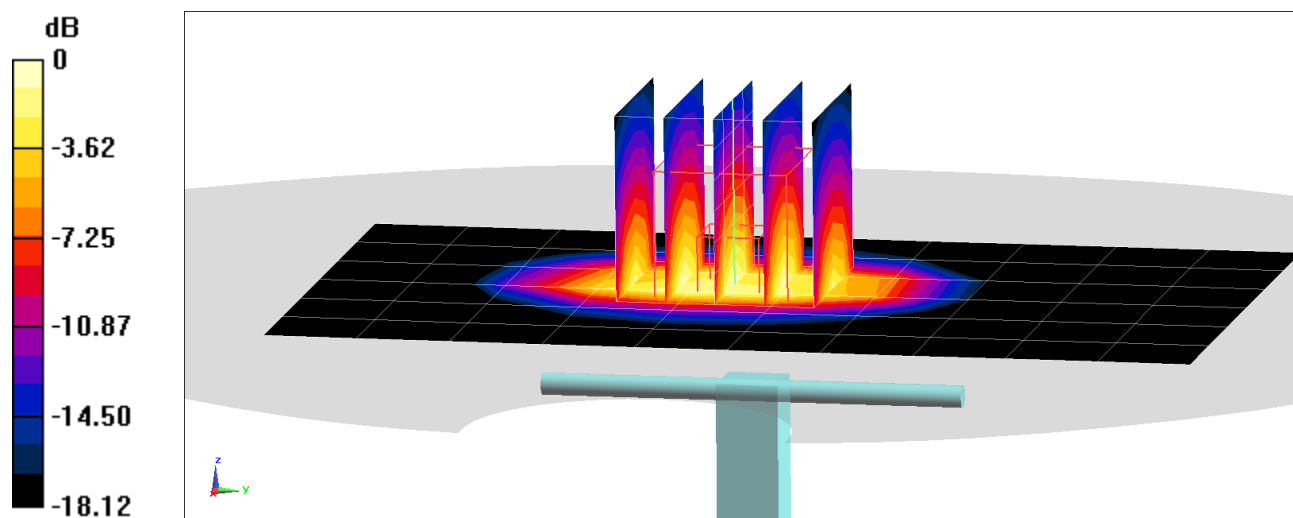
Area Scan (7x11x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Peak SAR (extrapolated) = 7.62 W/kg

SAR(1 g) = 4.01 W/kg

Deviation(1 g) = 2.30%



0 dB = 6.34 W/kg = 8.02 dBW/kg

PCTEST

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d149

Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: 1900 Body Medium parameters used:

$f = 1900 \text{ MHz}$; $\sigma = 1.534 \text{ S/m}$; $\epsilon_r = 52.082$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 06/06/2021; Ambient Temp: 23.6°C; Tissue Temp: 23.5°C

Probe: EX3DV4 - SN7571; ConvF(7.67, 7.67, 7.67) @ 1900 MHz; Calibrated: 12/11/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1533; Calibrated: 12/7/2020

Phantom: SAM 5.0 front; Type: QD000P40CD; Serial: 1648

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

1900 MHz System Verification at 20.0 dBm (100 mW)

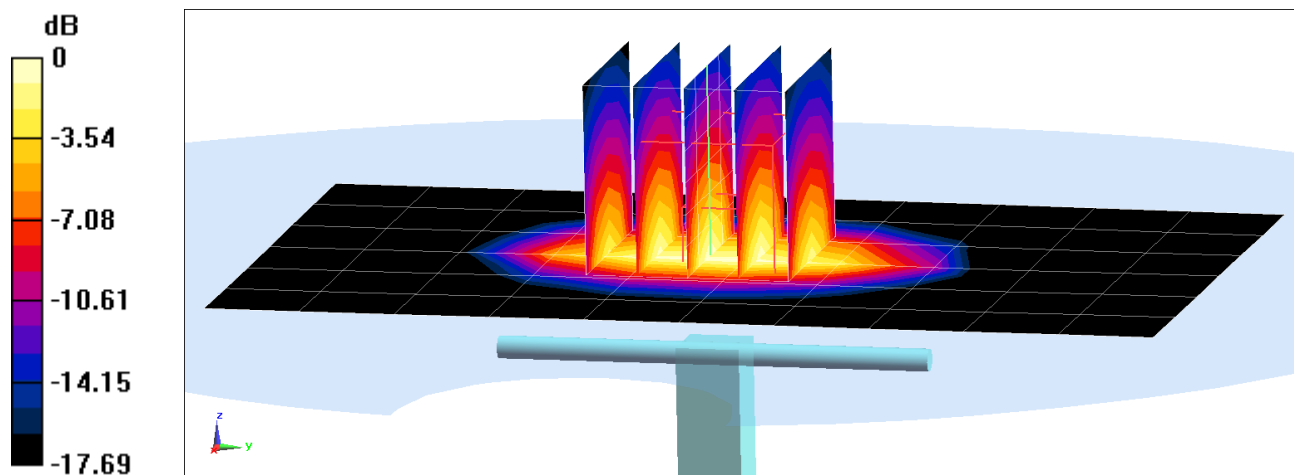
Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 7.54 W/kg

SAR(1 g) = 4.19 W/kg; SAR(10 g) = 2.19 W/kg

Deviation(1 g) = 6.35%; Deviation(10 g) = 5.80%



0 dB = 6.41 W/kg = 8.07 dBW/kg

PCTEST

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d080

Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: 1900 Body Medium parameters used:

$f = 1900 \text{ MHz}$; $\sigma = 1.552 \text{ S/m}$; $\epsilon_r = 51.461$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 06/09/2021; Ambient Temp: 23.1°C; Tissue Temp: 22.8°C

Probe: EX3DV4 - SN7571; ConvF(7.67, 7.67, 7.67) @ 1900 MHz; Calibrated: 12/11/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1533; Calibrated: 12/7/2020

Phantom: SAM 5.0 front; Type: QD000P40CD; Serial: 1648

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

1900 MHz System Verification at 20.0 dBm (100 mW)

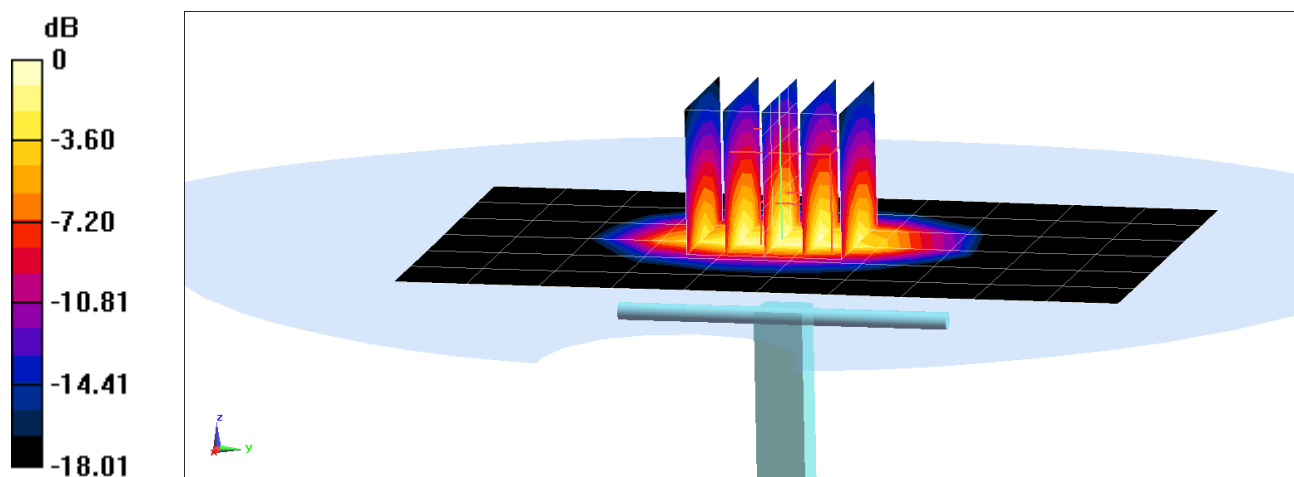
Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 7.18 W/kg

SAR (1g) = 3.93 W/kg; SAR(10 g) = 2.04 W/kg

Deviation (1g) = 0.26%; Deviation(10 g) = -0.97%



0 dB = 6.07 W/kg = 7.83 dBW/kg

PCTEST

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d149

Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: 1900 Body Medium parameters used:

$f = 1900 \text{ MHz}$; $\sigma = 1.568 \text{ S/m}$; $\epsilon_r = 51.262$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 06/13/2021; Ambient Temp: 23.4°C; Tissue Temp: 22.7°C

Probe: EX3DV4 - SN7571; ConvF(7.67, 7.67, 7.67) @ 1900 MHz; Calibrated: 12/11/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1533; Calibrated: 12/7/2020

Phantom: SAM 5.0 front; Type: QD000P40CD; Serial: 1648

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

1900 MHz System Verification at 20.0 dBm (100 mW)

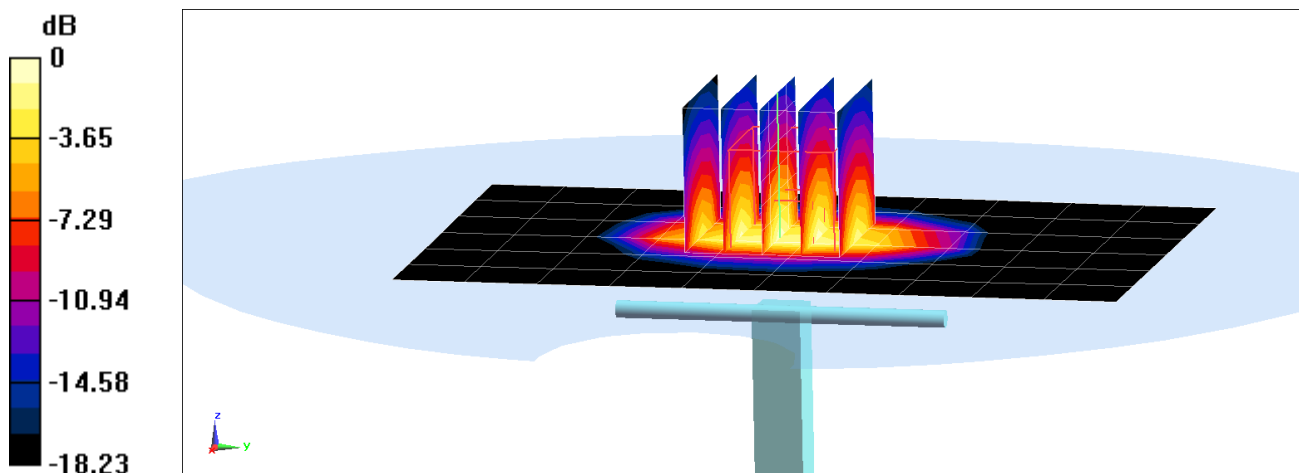
Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 7.16 W/kg

SAR(1 g) = 3.91 W/kg; SAR(10 g) = 2.03 W/kg

Deviation(1 g) = -0.76%; Deviation(10 g) = -1.93%



0 dB = 6.02 W/kg = 7.80 dBW/kg

PCTEST

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d080

Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: 1900 Body; Medium parameters used:

$f = 1900 \text{ MHz}$; $\sigma = 1.544 \text{ S/m}$; $\epsilon_r = 53.001$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 06/13/2021; Ambient Temp: 25.0°C; Tissue Temp: 25.0°C

Probe: EX3DV4 - SN7410; ConvF(7.76, 7.76, 7.76) @ 1900 MHz; Calibrated: 7/20/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/15/2020

Phantom: Twin-SAM V5.0 Left 20; Type: QD 000 P40 CD; Serial: 1715

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

1900 MHz System Verification at 20.0 dBm (100 mW)

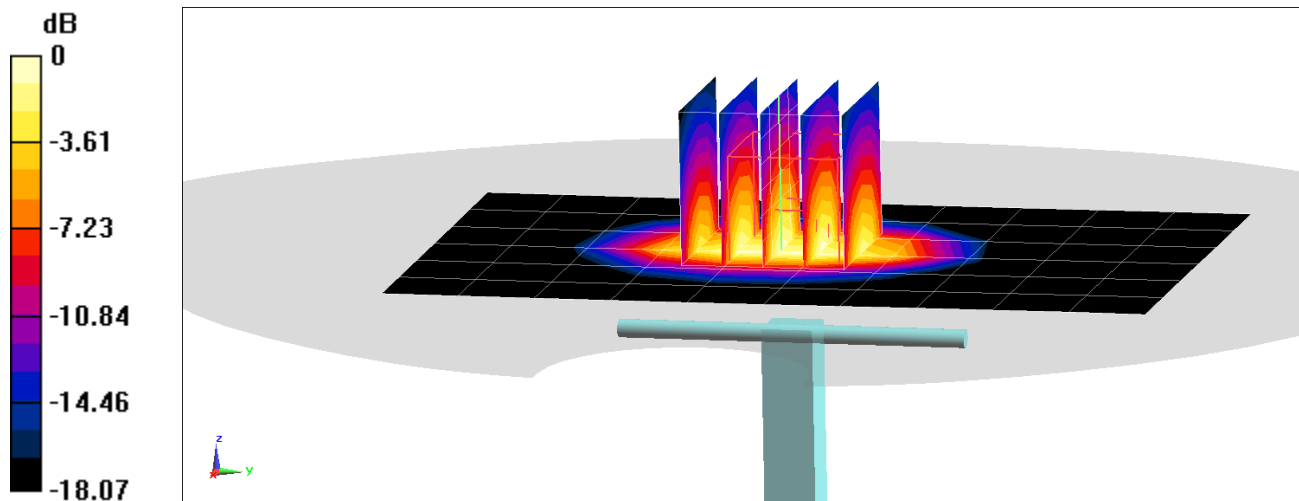
Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 7.49 W/kg

SAR(10 g) = 2.2 W/kg

Deviation(10 g) = 6.80%



PCTEST

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 882

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: 2450 Body Medium parameters used:

$f = 2450$ MHz; $\sigma = 2.039$ S/m; $\epsilon_r = 52.396$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 04/28/2021; Ambient Temp: 21.3°C; Tissue Temp: 22.2°C

Probe: EX3DV4 - SN7527; ConvF(7.51, 7.51, 7.51) @ 2450 MHz; Calibrated: 3/16/2021

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1466; Calibrated: 11/6/2020

Phantom: Twin-SAM V5.0 (30); Type: QD 000 P40 CD; Serial: 1868

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

2450 MHz System Verification at 20.0 dBm (100 mW)

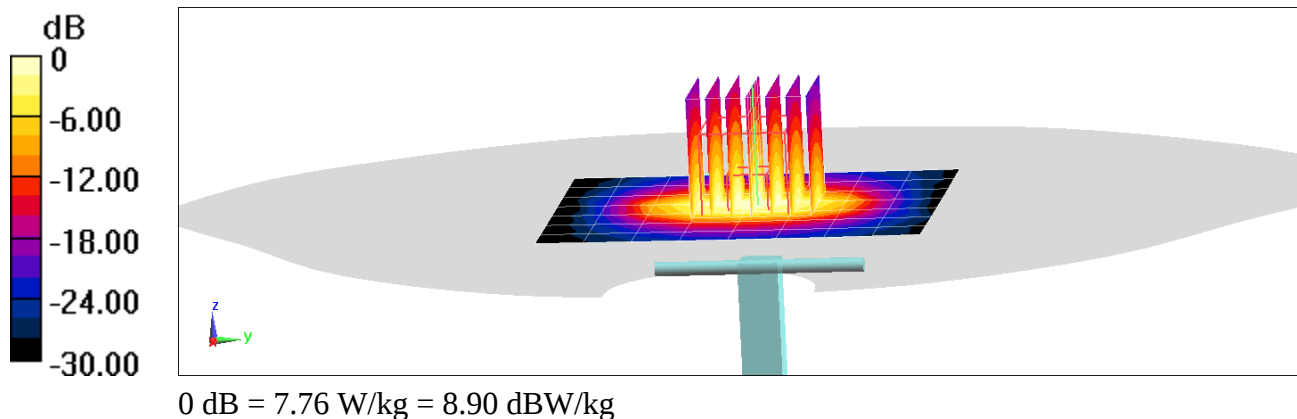
Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Peak SAR (extrapolated) = 11.2 W/kg

SAR(1 g) = 5.11 W/kg; SAR(10 g) = 2.33 W/kg

Deviation(1 g) = 0.99%; Deviation(10 g) = -2.51%



PCTEST

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 882

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: 2450 Body Medium parameters used:

$f = 2450 \text{ MHz}$; $\sigma = 2.046 \text{ S/m}$; $\epsilon_r = 51.357$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/13/2021; Ambient Temp: 20.5°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN7527; ConvF(7.51, 7.51, 7.51) @ 2450 MHz; Calibrated: 3/16/2021

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1466; Calibrated: 11/6/2020

Phantom: Twin-SAM V5.0 (30); Type: QD 000 P40 CD; Serial: 1868

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

2450 MHz System Verification at 20.0 dBm (100 mW)

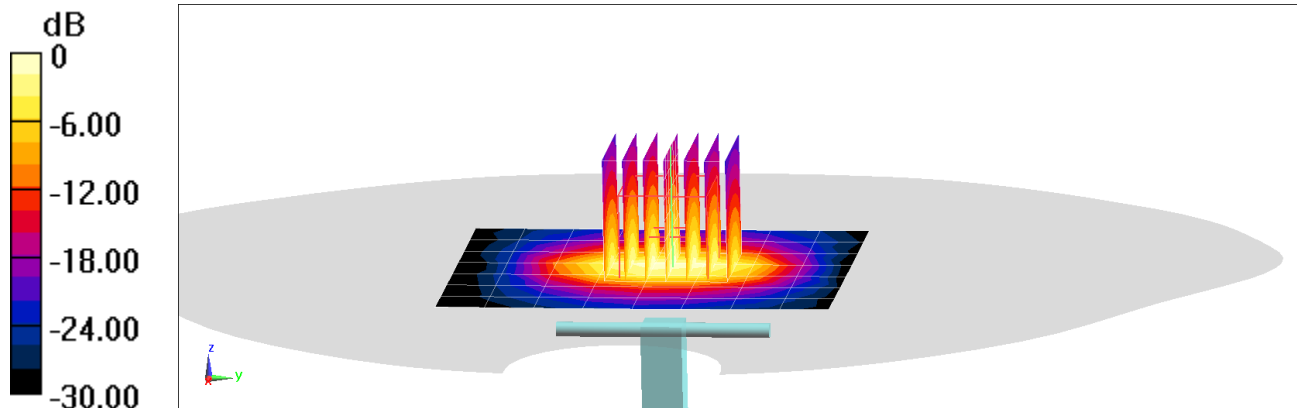
Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Peak SAR (extrapolated) = 11.2 W/kg

SAR(10 g) = 2.37 W/kg

Deviation(10 g) = -0.84%



0 dB = 8.89 W/kg = 9.49 dBW/kg

PCTEST

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 719

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: 2450 Body Medium parameters used:

$f = 2450$ MHz; $\sigma = 2.014$ S/m; $\epsilon_r = 51.031$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/25/2021; Ambient Temp: 24.7°C; Tissue Temp: 24.5°C

Probe: EX3DV4 - SN7571; ConvF(7.39, 7.39, 7.39) @ 2450 MHz; Calibrated: 12/11/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1533; Calibrated: 12/7/2020

Phantom: SAM 5.0 front; Type: QD000P40CD; Serial: 1648

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

2450 MHz System Verification at 20.0 dBm (100 mW)

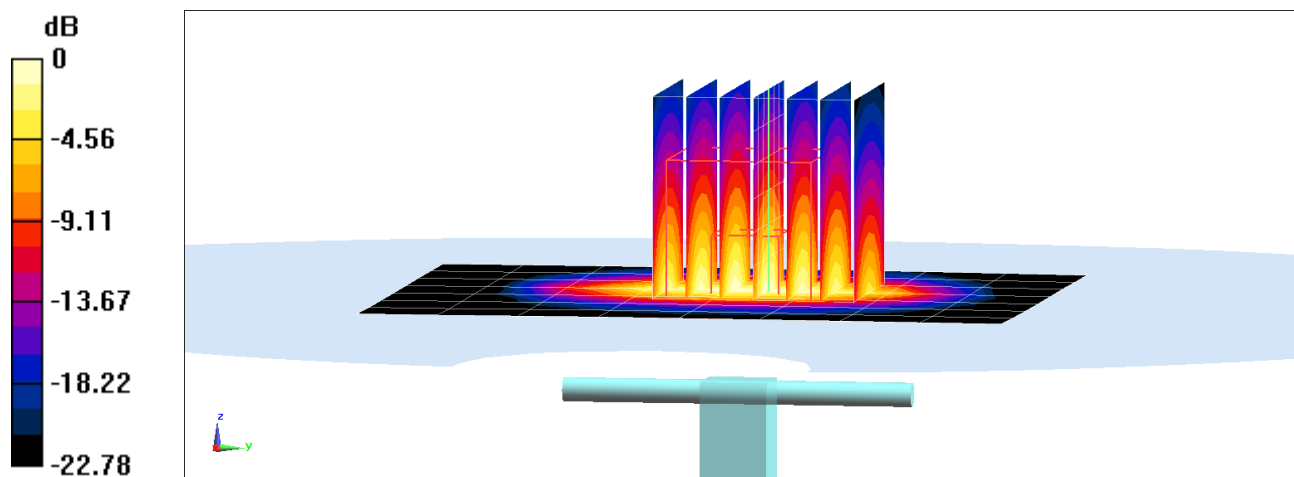
Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Peak SAR (extrapolated) = 10.8 W/kg

SAR(1 g) = 5.12 W/kg

Deviation(1 g) = 0.99%



PCTEST

DUT: Dipole 2450.0 MHz; Type: D2450V2; Serial: 719

Communication System: UID: 0--, CW; Frequency: 2450.0 MHz
Medium: 2450 Body; Medium parameters used:
f = 2450.0 MHz; cond = 2.04 S/m; perm = 51.3; density = 1000 kg/m³
Phantom Section: Flat; Space: 1.0 cm

Test Date: 06/08/2021; Ambient Temp: 24.0°C; Tissue Temp: 22.3°C

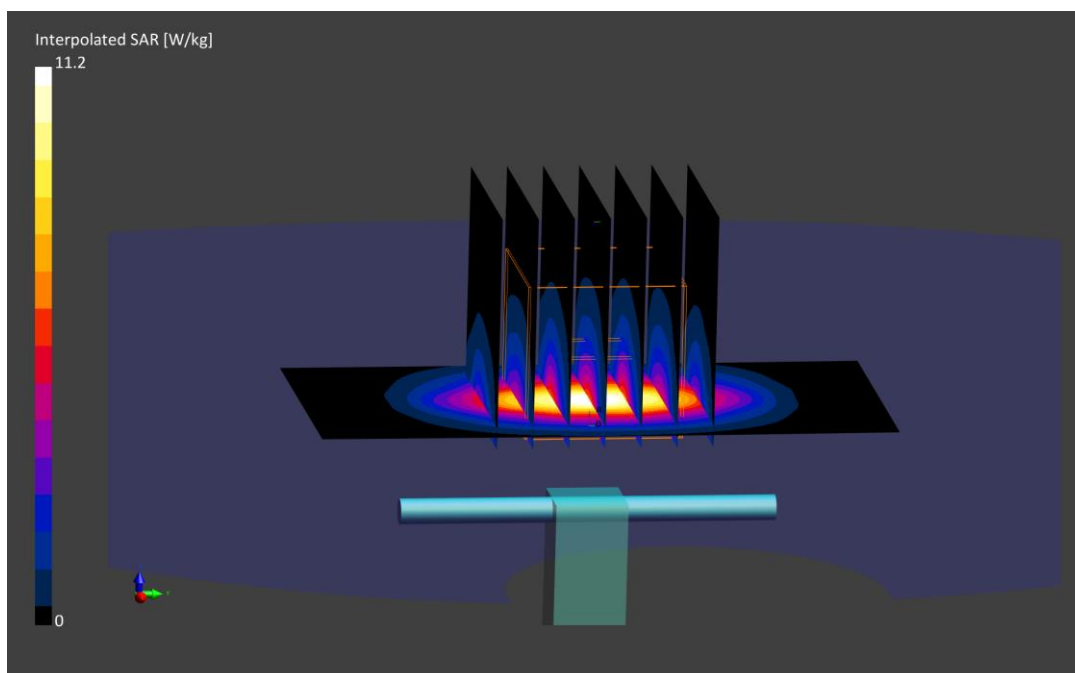
Probe: EX3DV4 - SN7538; ConvF:(7.44,7.44,7.44); Calibrated: 2020-11-23
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1449; Calibrated: 2020-09-10
Phantom: Twin-SAM V5.0 (Leftt); Serial: 1873
Measurement SW: cDASY6 Module SAR V6.14.0.959

2450.0 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 (30.0 x 30.0 x 30.0): Measurement grid: dx=5.0mm, dy=5.0mm, dz=1.5mm; Graded Ratio: 1.5
Peak SAR (extrapolated) = 11.2 W/kg

SAR(10 g) = 2.33 W/kg
Deviation (10 g) = -2.51%;



PCTEST

DUT: Dipole 2450.0 MHz; Type: D2450V2; Serial: 981

Communication System: UID: 0--, CW; Frequency: 2450.0 MHz
Medium: 2450 Body; Medium parameters used:
f = 2450.0 MHz; cond = 2.01 S/m; perm = 52.1; density = 1000 kg/m³
Phantom Section: Flat; Space: 1.0 cm

Test Date: 06/14/2021; Ambient Temp: 21.3°C; Tissue Temp: 22.9°C

Probe: EX3DV4 - SN7539; ConvF:(7.62,7.62,7.62); 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

2450.0 MHz System Verification at 20.0 dBm (100 mW)

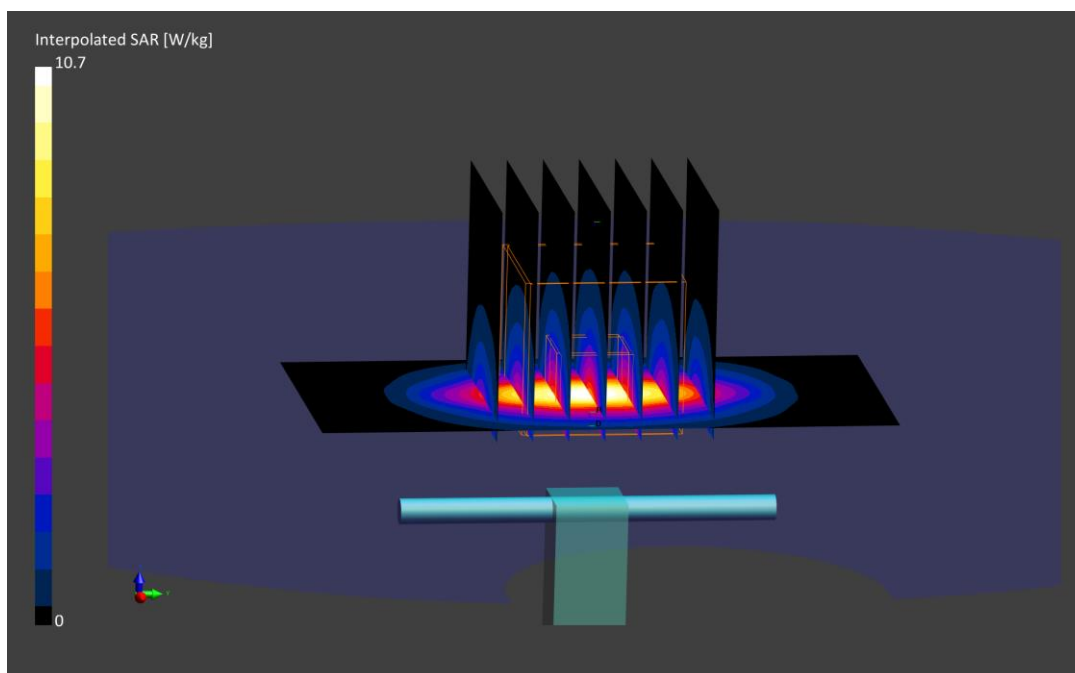
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0mm, dy=10.0mm

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

Peak SAR (extrapolated) = 10.7 W/kg

SAR(1 g) = 5.10 W/kg; SAR(10 g) = 2.35 W/kg

Deviation (1 g) = 1.80%; Deviation (10 g) = -0.84%;



PCTEST

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: 1064

Communication System: UID 0, CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: 2450 Body Medium parameters used:

$f = 2600$ MHz; $\sigma = 2.181$ S/m; $\epsilon_r = 50.616$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/25/2021; Ambient Temp: 24.7°C; Tissue Temp: 24.5°C

Probe: EX3DV4 - SN7571; ConvF(7.19, 7.19, 7.19) @ 2600 MHz; Calibrated: 12/11/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1533; Calibrated: 12/7/2020

Phantom: SAM 5.0 front; Type: QD000P40CD; Serial: 1648

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

2600 MHz System Verification at 20.0 dBm (100 mW)

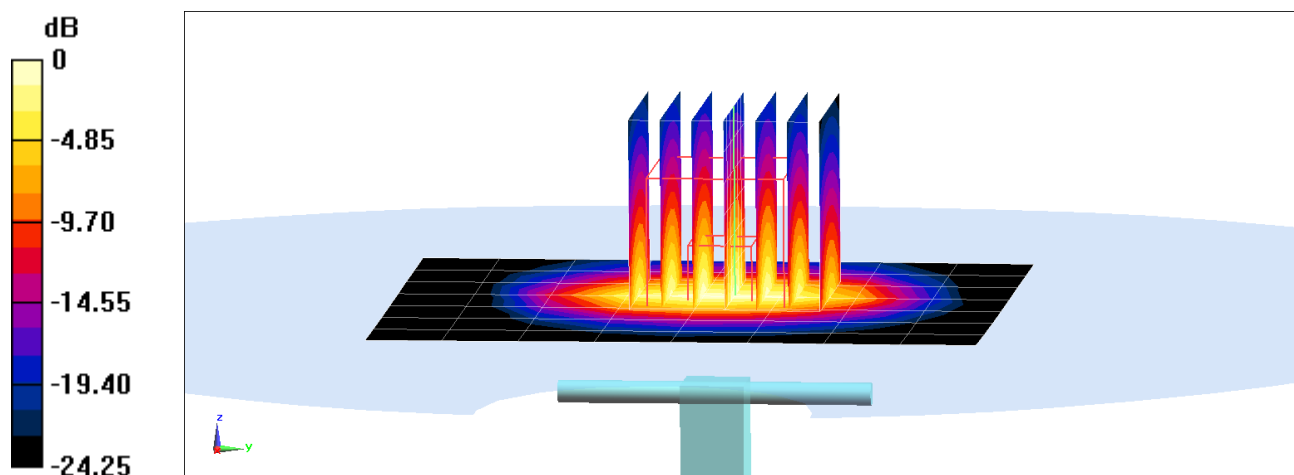
Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Peak SAR (extrapolated) = 12.7 W/kg

SAR(1 g) = 5.56 W/kg

Deviation(1 g) = 0.00%



PCTEST

DUT: Dipole 2600.0 MHz; Type: D2600V2; Serial: 1064

Communication System: UID: 0--, CW; Frequency: 2600.0 MHz

Medium: 2450 Body; Medium parameters used:

f = 2600.0 MHz; cond = 2.21 S/m; perm = 50.9; density = 1000 kg/m³

Phantom Section: Flat; Space: 1.0 cm

Test Date: 06/08/2021; Ambient Temp: 24.0°C; Tissue Temp: 22.3°C

Probe: EX3DV4 - SN7538; ConvF:(7.25,7.25,7.25); Calibrated: 2020-11-23

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

Electronics: DAE4 Sn1449; Calibrated: 2020-09-10

Phantom: Twin-SAM V5.0 (Leftt); Serial: 1873

Measurement SW: cDASY6 Module SAR V6.14.0.959

2600.0 MHz System Verification at 20.0 dBm (100 mW)

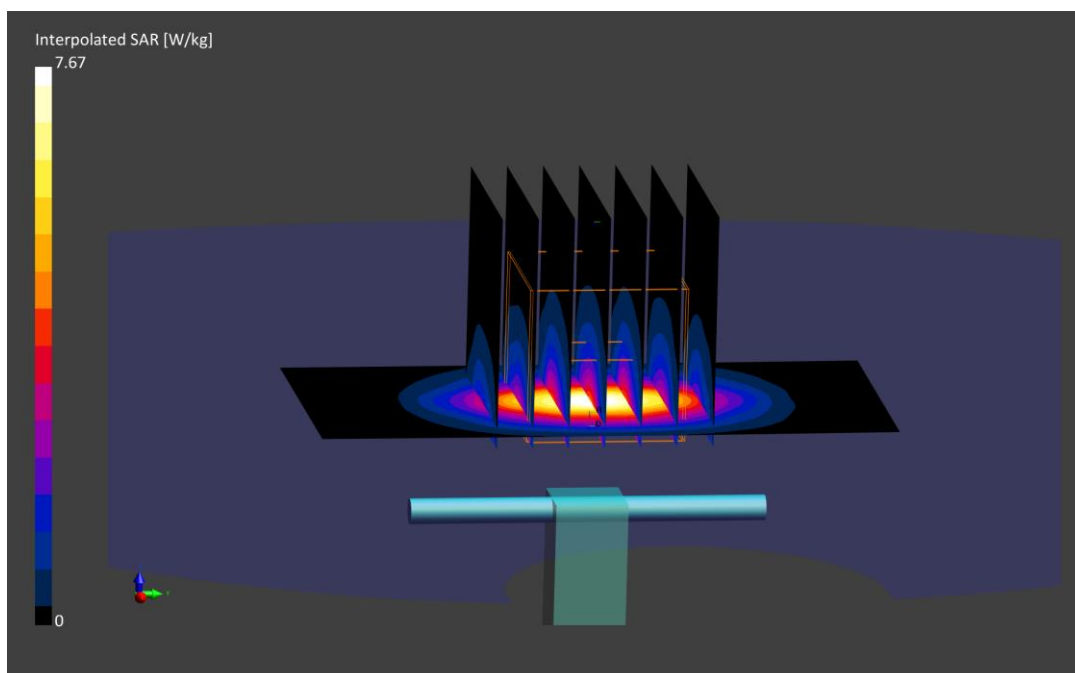
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0mm, dy=10.0mm

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

Peak SAR (extrapolated) = 12.9 W/kg

SAR(10 g) = 2.54 W/kg

Deviation (10 g) = 1.60%;



PCTEST

DUT: Dipole 2600.0 MHz; Type: D2600V2; Serial: 1071

Communication System: UID: 0--, CW; Frequency: 2600.0 MHz
Medium: 2450 Body; Medium parameters used:
f = 2600.0 MHz; cond = 2.15 S/m; perm = 51.9; density = 1000 kg/m³
Phantom Section: Flat; Space: 1.0 cm

Test Date: 06/14/2021; Ambient Temp: 21.3°C; Tissue Temp: 22.9°C

Probe: EX3DV4 - SN7539; ConvF:(7.55,7.55,7.55); 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

2600.0 MHz System Verification at 20.0 dBm (100 mW)

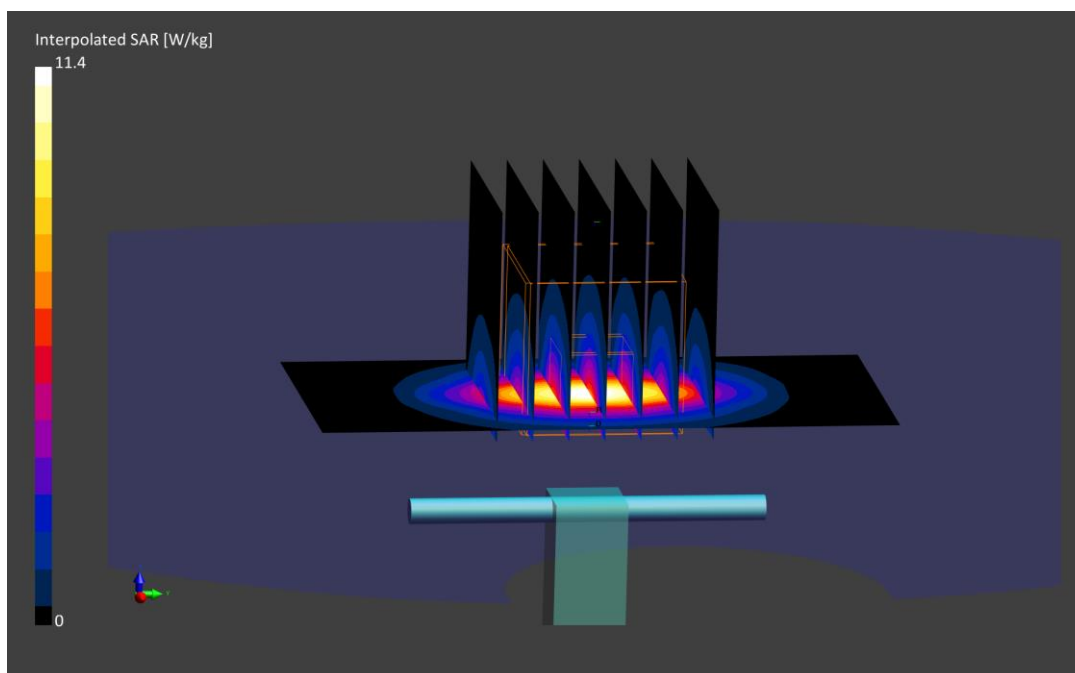
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0mm, dy=10.0mm

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

Peak SAR (extrapolated) = 11.4 W/kg

SAR(1 g) = 5.21 W/kg; SAR(10 g) = 2.33 W/kg

Deviation (1 g) = -4.05%; Deviation (10 g) = -3.32%;



PCTEST

DUT: Dipole 5250 MHz; Type: D5GHzV2; Serial: 1120

Communication System: UID 0, CW; Frequency: 5250 MHz; Duty Cycle: 1:1

Medium: 5200-5800 Body Medium parameters used:

$f = 5250 \text{ MHz}$; $\sigma = 5.348 \text{ S/m}$; $\epsilon_r = 46.959$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 04/19/2021; Ambient Temp: 22.0°C; Tissue Temp: 21.8°C

Probe: EX3DV4 - SN7637; ConvF(4.73, 4.73, 4.73) @ 5250 MHz; Calibrated: 03/03/2021

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1652; Calibrated: 03/01/2021

Phantom: Twin-SAM V5.0 (20); Type: QD 000 P40 CD; Serial: 1626

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

5250 MHz System Verification at 17.0 dBm (50 mW)

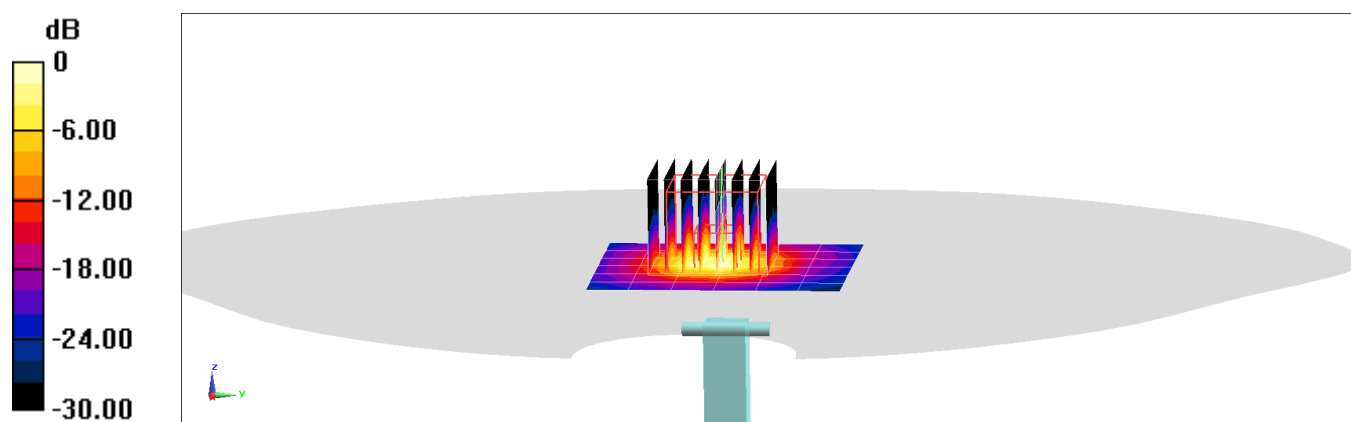
Area Scan (7x7x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Zoom Scan (8x8x7)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$; Graded Ratio: 1.4

Peak SAR (extrapolated) = 14.6 W/kg

SAR(1 g) = 3.59 W/kg; SAR(10 g) = 1 W/kg

Deviation(1 g) = -3.36%; Deviation(10 g) = -3.85%



0 dB = 8.64 W/kg = 9.37 dBW/kg

PCTEST

DUT: Dipole 5250 MHz; Type: D5GHzV2; Serial: 1120

Communication System: UID 0, CW; Frequency: 5250 MHz; Duty Cycle: 1:1

Medium: 5200-5800 Body Medium parameters used:

$f = 5250 \text{ MHz}$; $\sigma = 5.421 \text{ S/m}$; $\epsilon_r = 47.115$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 04/26/2021; Ambient Temp: 20.8°C; Tissue Temp: 21.6°C

Probe: EX3DV4 - SN7637; ConvF(4.73, 4.73, 4.73) @ 5250 MHz; Calibrated: 03/03/2021

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1652; Calibrated: 03/01/2021

Phantom: Twin-SAM V5.0 (20); Type: QD 000 P40 CD; Serial: 1626

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

5250 MHz System Verification at 17.0 dBm (50 mW)

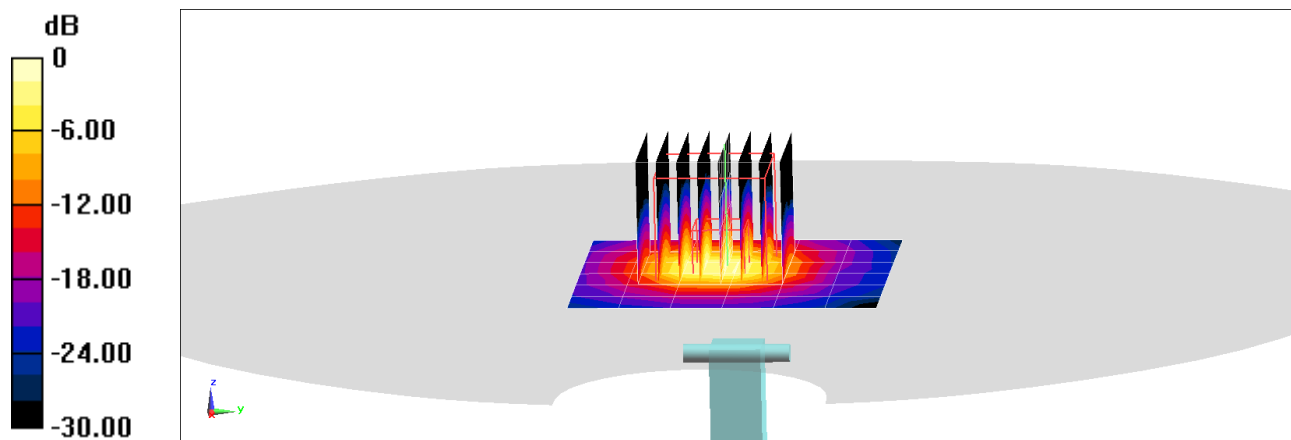
Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm

Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 15.3 W/kg

SAR(1 g) = 3.79 W/kg

Deviation(1 g) = 2.02%



PCTEST

DUT: Dipole 5250 MHz; Type: D5GHzV2; Serial: 1120

Communication System: UID 0, CW; Frequency: 5250 MHz; Duty Cycle: 1:1

Medium: 5200-5800 Body Medium parameters used:

$f = 5250 \text{ MHz}$; $\sigma = 5.441 \text{ S/m}$; $\epsilon_r = 47.018$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/03/2021; Ambient Temp: 21.6°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7637; ConvF(4.73, 4.73, 4.73) @ 5250 MHz; Calibrated: 3/3/2021

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1652; Calibrated: 3/1/2021

Phantom: Twin-SAM V5.0 (20); Type: QD 000 P40 CD; Serial: 1626

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

5250 MHz System Verification at 17.0 dBm (50 mW)

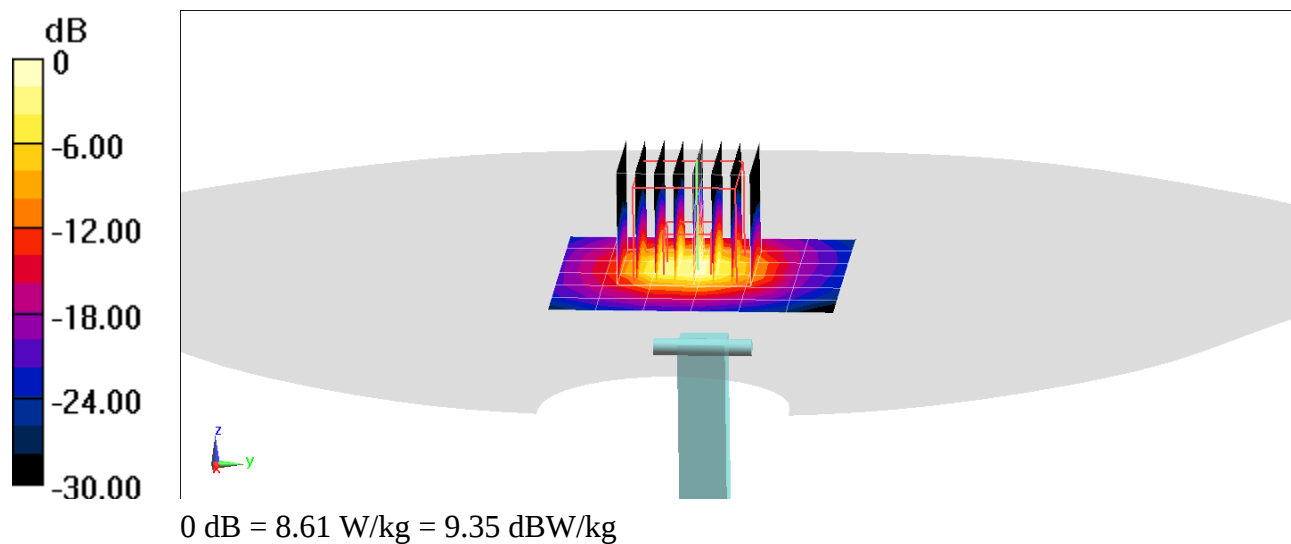
Area Scan (7x7x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Zoom Scan (8x8x7)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$; Graded Ratio: 1.4

Peak SAR (extrapolated) = 15.1 W/kg

SAR(10 g) = 1.02 W/kg

Deviation(10 g) = -1.92%



PCTEST

DUT: Dipole 5250 MHz; Type: D5GHzV2; Serial: 1120

Communication System: UID 0, CW; Frequency: 5250 MHz; Duty Cycle: 1:1
Medium: 5200-5800 Body Medium parameters used:
 $f = 5250 \text{ MHz}$; $\sigma = 5.363 \text{ S/m}$; $\epsilon_r = 47.525$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/10/2021; Ambient Temp: 22.0°C; Tissue Temp: 22.0°C

Probe: EX3DV4 - SN7637; ConvF(4.73, 4.73, 4.73) @ 5250 MHz; Calibrated: 03/03/2021
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1652; Calibrated: 03/01/2021
Phantom: Twin-SAM V5.0 (20); Type: QD 000 P40 CD; Serial: 1626
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

5250 MHz System Verification at 17.0 dBm (50 mW)

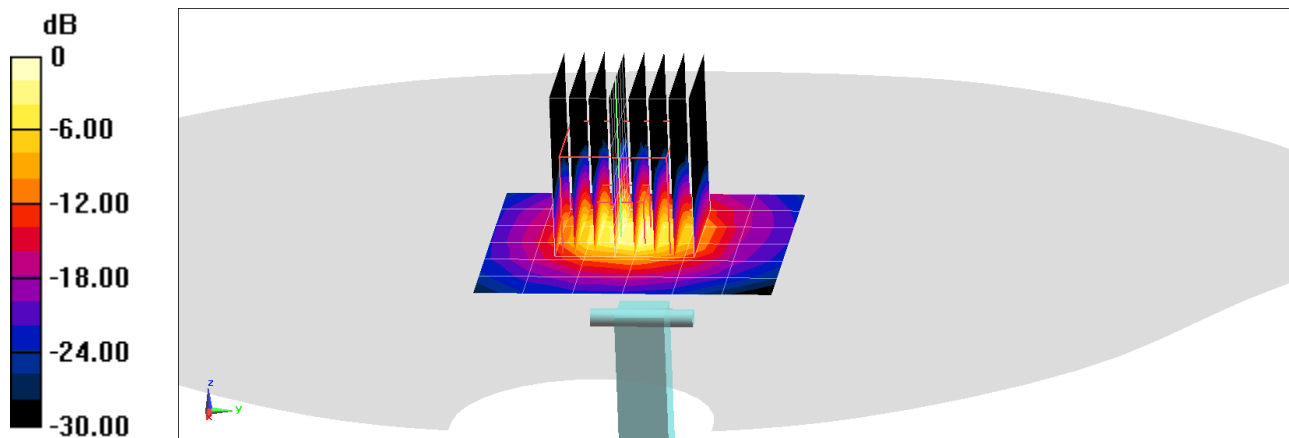
Area Scan (7x7x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Zoom Scan (8x8x8)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$

Peak SAR (extrapolated) = 14.7 W/kg

SAR(1 g) = 3.5 W/kg

Deviation(1 g) = -5.79%



0 dB = 8.83 W/kg = 9.46 dBW/kg

PCTEST

DUT: Dipole 5600 MHz; Type: D5GHzV2; Serial: 1120

Communication System: UID 0, CW; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: 5200-5800 Body Medium parameters used:

$f = 5600 \text{ MHz}$; $\sigma = 5.846 \text{ S/m}$; $\epsilon_r = 46.301$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 04/19/2021; Ambient Temp: 22.0°C; Tissue Temp: 21.8°C

Probe: EX3DV4 - SN7637; ConvF(4.15, 4.15, 4.15) @ 5600 MHz; Calibrated: 03/03/2021

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1652; Calibrated: 03/01/2021

Phantom: Twin-SAM V5.0 (20); Type: QD 000 P40 CD; Serial: 1626

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

5600 MHz System Verification at 17.0 dBm (50 mW)

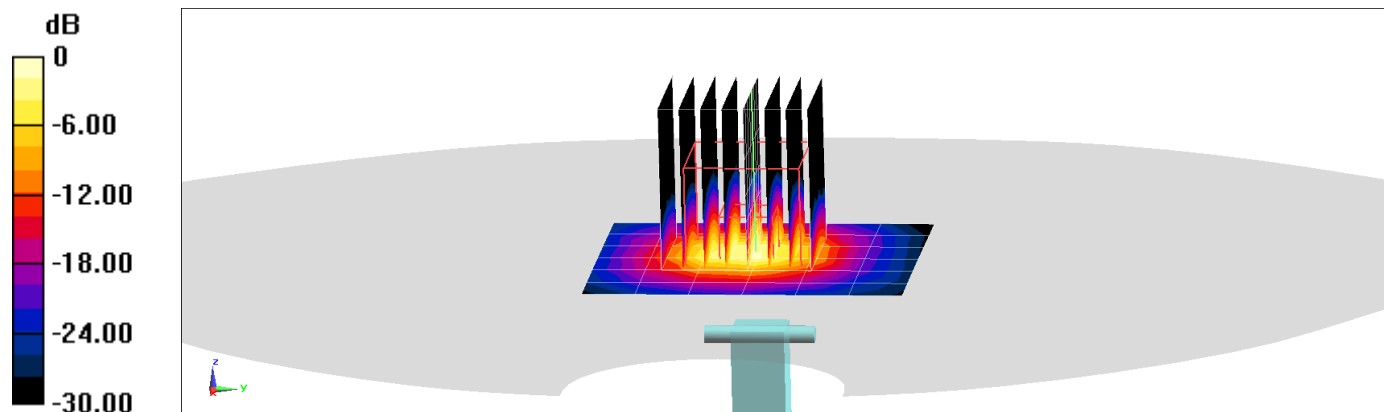
Area Scan (7x7x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Zoom Scan (8x8x8)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$; Graded Ratio: 1.4

Peak SAR (extrapolated) = 16.8 W/kg

SAR(1 g) = 3.76 W/kg; SAR(10 g) = 1.03 W/kg

Deviation(1 g) = -3.34%; Deviation(10 g) = -5.07%



PCTEST

DUT: Dipole 5600 MHz; Type: D5GHzV2; Serial: 1120

Communication System: UID 0, CW; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: 5200-5800 Body Medium parameters used:

$f = 5600 \text{ MHz}$; $\sigma = 5.92 \text{ S/m}$; $\epsilon_r = 46.405$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 04/26/2021; Ambient Temp: 20.8°C; Tissue Temp: 21.6°C

Probe: EX3DV4 - SN7637; ConvF(4.15, 4.15, 4.15) @ 5600 MHz; Calibrated: 03/03/2021

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1652; Calibrated: 03/01/2021

Phantom: Twin-SAM V5.0 (20); Type: QD 000 P40 CD; Serial: 1626

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

5600 MHz System Verification at 17.0 dBm (50 mW)

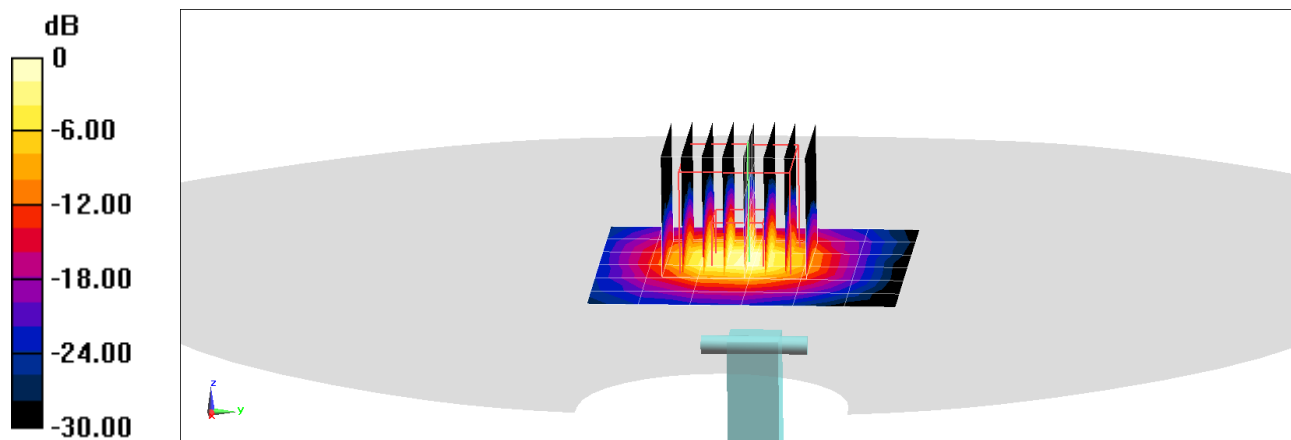
Area Scan (7x7x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Zoom Scan (8x8x7)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$; Graded Ratio: 1.4

Peak SAR (extrapolated) = 16.6 W/kg

SAR(1 g) = 3.69 W/kg

Deviation(1 g) = -5.14%



PCTEST

DUT: Dipole 5600 MHz; Type: D5GHzV2; Serial: 1120

Communication System: UID 0, CW; Frequency: 5600 MHz; Duty Cycle: 1:1
Medium: 5200-5800 Body Medium parameters used:
 $f = 5600 \text{ MHz}$; $\sigma = 5.943 \text{ S/m}$; $\epsilon_r = 46.329$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/03/2021; Ambient Temp: 21.6°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7637; ConvF(4.15, 4.15, 4.15) @ 5600 MHz; Calibrated: 3/3/2021
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1652; Calibrated: 3/1/2021
Phantom: Twin-SAM V5.0 (20); Type: QD 000 P40 CD; Serial: 1626
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

5600 MHz System Verification at 17.0 dBm (50 mW)

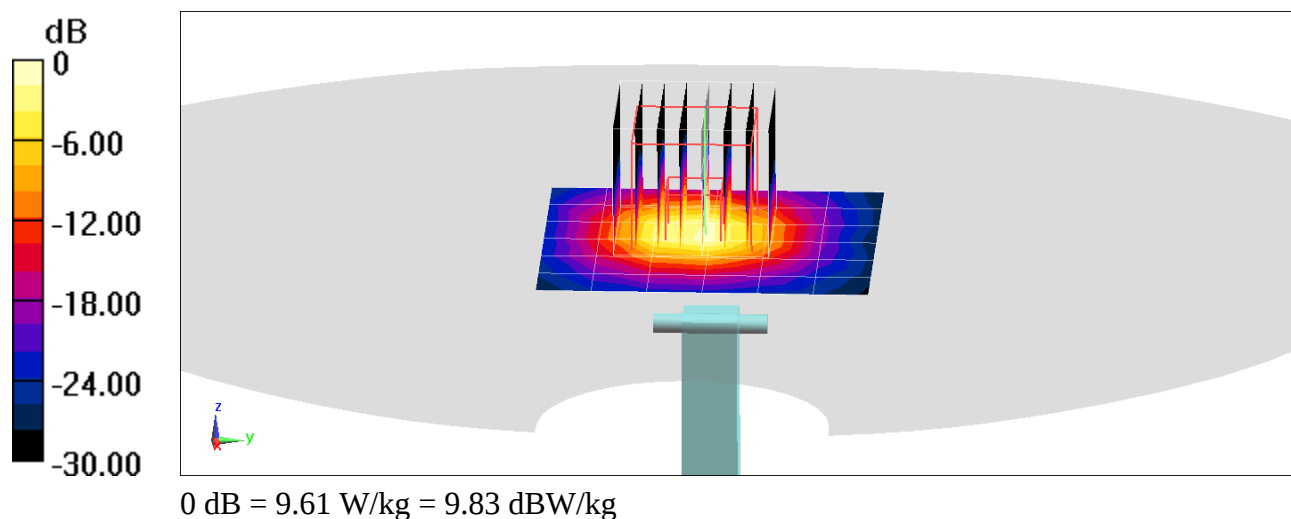
Area Scan (7x7x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Zoom Scan (8x8x7)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$; Graded Ratio: 1.4

Peak SAR (extrapolated) = 18.1 W/kg

SAR(10 g) = 1.11 W/kg

Deviation(10 g) = 2.30%



PCTEST

DUT: Dipole 5600 MHz; Type: D5GHzV2; Serial: 1120

Communication System: UID 0, CW; Frequency: 5600 MHz; Duty Cycle: 1:1
Medium: 5200-5800 Body Medium parameters used:
 $f = 5600 \text{ MHz}$; $\sigma = 5.886 \text{ S/m}$; $\epsilon_r = 46.996$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/10/2021; Ambient Temp: 22.0°C; Tissue Temp: 22.0°C

Probe: EX3DV4 - SN7637; ConvF(4.15, 4.15, 4.15) @ 5600 MHz; Calibrated: 03/03/2021
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1652; Calibrated: 03/01/2021
Phantom: Twin-SAM V5.0 (20); Type: QD 000 P40 CD; Serial: 1626
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

5600 MHz System Verification at 17.0 dBm (50 mW)

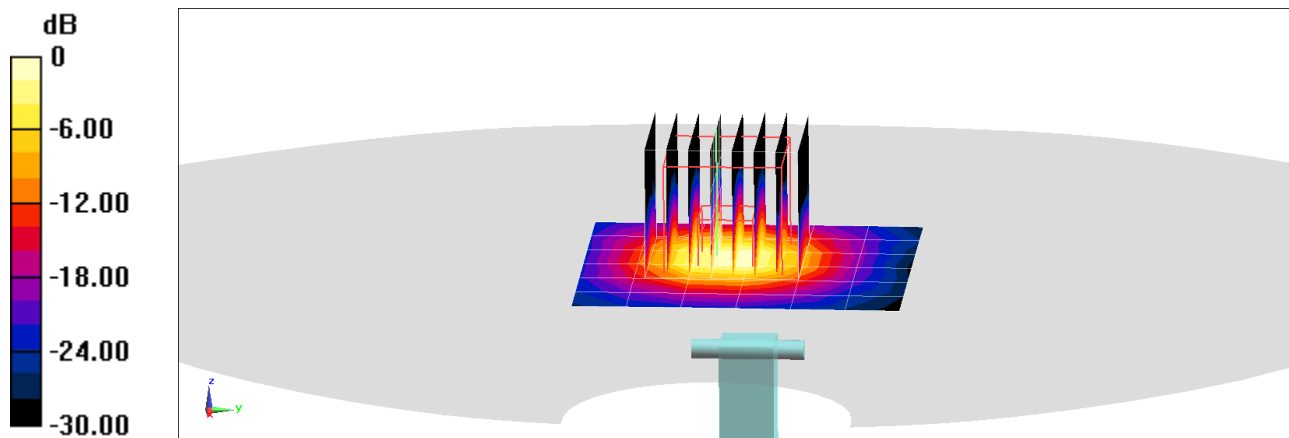
Area Scan (7x7x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Zoom Scan (8x8x7)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$

Peak SAR (extrapolated) = 16.9 W/kg

SAR(1 g) = 3.71 W/kg

Deviation(1 g) = -4.63%



0 dB = 9.11 W/kg = 9.60 dBW/kg

PCTEST

DUT: Dipole 5750 MHz; Type: D5GHzV2; Serial: 1120

Communication System: UID 0, CW; Frequency: 5750 MHz; Duty Cycle: 1:1

Medium: 5200-5800 Body Medium parameters used:

$f = 5750 \text{ MHz}$; $\sigma = 6.046 \text{ S/m}$; $\epsilon_r = 45.995$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 04/19/2021; Ambient Temp: 22.0°C; Tissue Temp: 21.8°C

Probe: EX3DV4 - SN7637; ConvF(4.22, 4.22, 4.22) @ 5750 MHz; Calibrated: 03/03/2021

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1652; Calibrated: 03/01/2021

Phantom: Twin-SAM V5.0 (20); Type: QD 000 P40 CD; Serial: 1626

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

5750 MHz System Verification at 17.0 dBm (50 mW)

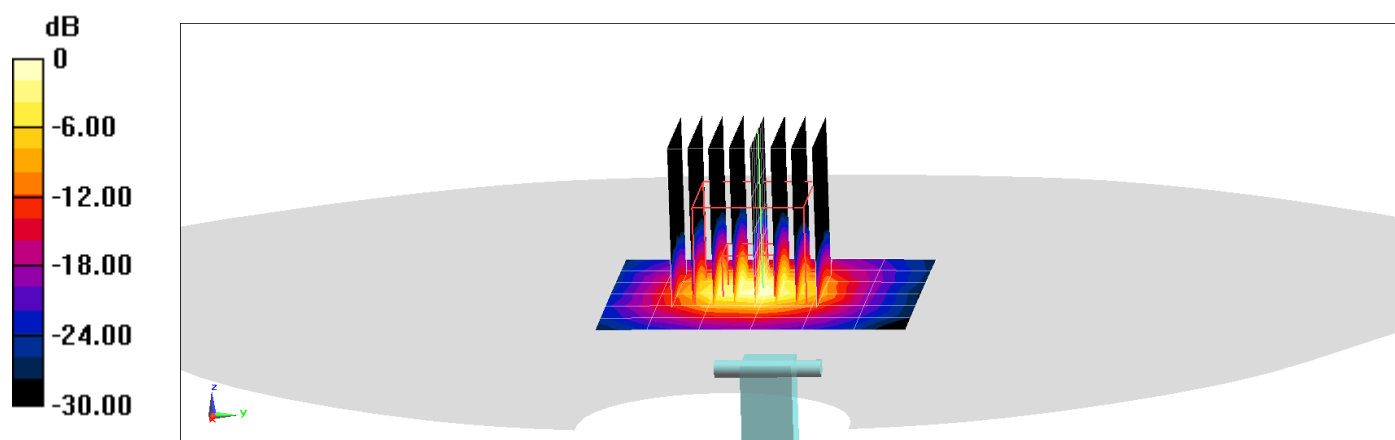
Area Scan (7x7x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Zoom Scan (8x8x8)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$; Graded Ratio: 1.4

Peak SAR (extrapolated) = 15.7 W/kg

SAR(1 g) = 3.4 W/kg; SAR(10 g) = 0.938 W/kg

Deviation(1 g) = -5.95%; Deviation(10 g) = -6.67%



0 dB = 8.34 W/kg = 9.21 dBW/kg

PCTEST

DUT: Dipole 5750 MHz; Type: D5GHzV2; Serial: 1120

Communication System: UID 0, CW; Frequency: 5750 MHz; Duty Cycle: 1:1

Medium: 5200-5800 Body Medium parameters used:

$f = 5750 \text{ MHz}$; $\sigma = 6.161 \text{ S/m}$; $\epsilon_r = 46.265$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 04/26/2021; Ambient Temp: 20.8°C; Tissue Temp: 21.6°C

Probe: EX3DV4 - SN7637; ConvF(4.22, 4.22, 4.22) @ 5750 MHz; Calibrated: 03/03/2021

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1652; Calibrated: 03/01/2021

Phantom: Twin-SAM V5.0 (20); Type: QD 000 P40 CD; Serial: 1626

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

5750 MHz System Verification at 17.0 dBm (50 mW)

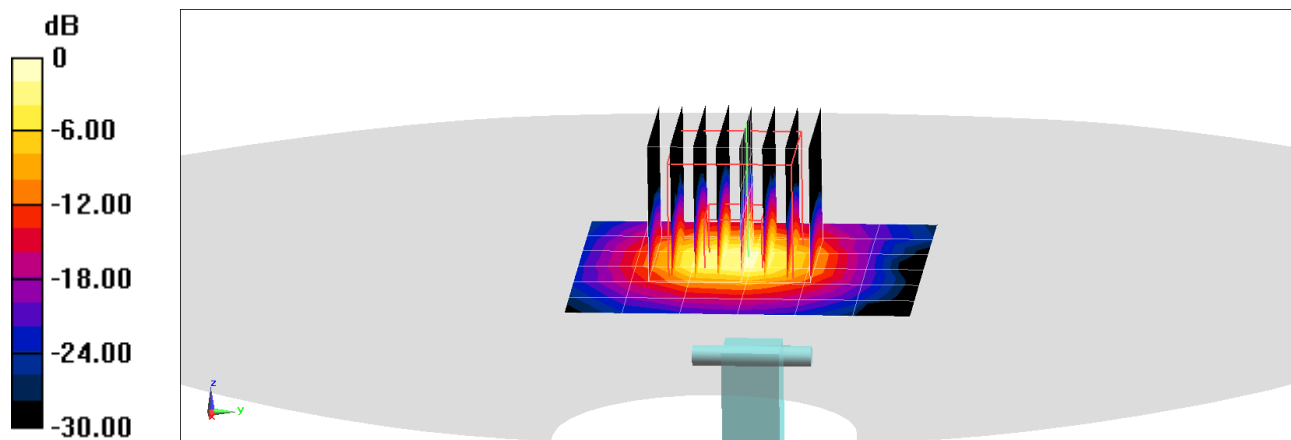
Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm

Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 17.6 W/kg

SAR(1 g) = 3.73 W/kg

Deviation(1 g) = 3.18%



PCTEST

DUT: Dipole 5750 MHz; Type: D5GHzV2; Serial: 1120

Communication System: UID 0, CW; Frequency: 5750 MHz; Duty Cycle: 1:1
Medium: 5200-5800 Body Medium parameters used:
 $f = 5750 \text{ MHz}$; $\sigma = 6.15 \text{ S/m}$; $\epsilon_r = 46.044$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/03/2021; Ambient Temp: 21.6°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7637; ConvF(4.22, 4.22, 4.22) @ 5750 MHz; Calibrated: 3/3/2021
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1652; Calibrated: 3/1/2021
Phantom: Twin-SAM V5.0 (20); Type: QD 000 P40 CD; Serial: 1626
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

5750 MHz System Verification at 17.0 dBm (50 mW)

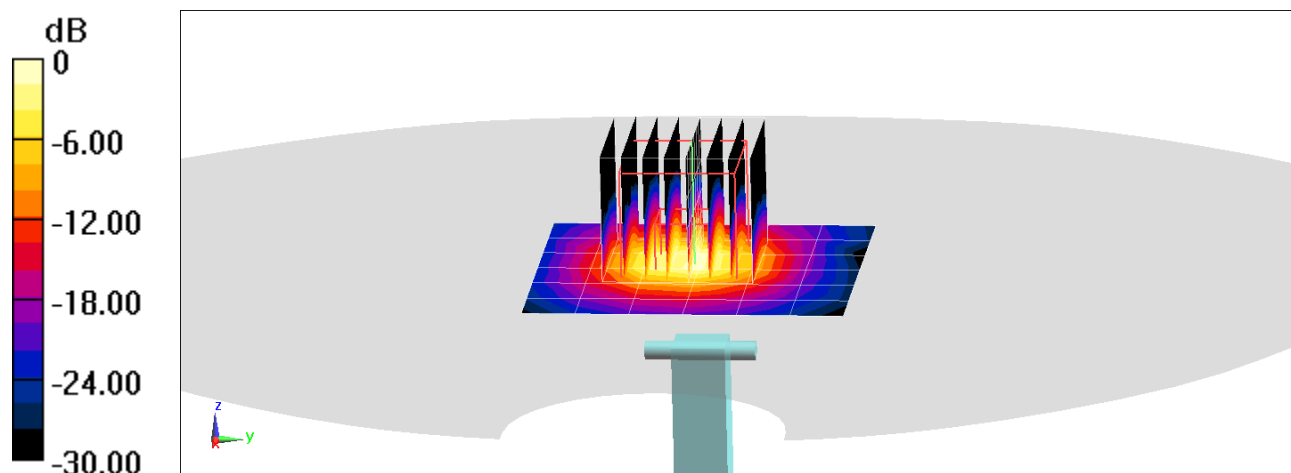
Area Scan (7x7x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Zoom Scan (8x8x7)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$; Graded Ratio: 1.4

Peak SAR (extrapolated) = 18.0 W/kg

SAR(10 g) = 1.05 W/kg

Deviation(10 g) = 4.48%



0 dB = 9.36 W/kg = 9.71 dBW/kg

PCTEST

DUT: Dipole 5750 MHz; Type: D5GHzV2; Serial: 1120

Communication System: UID 0, CW; Frequency: 5750 MHz; Duty Cycle: 1:1
Medium: 5200-5800 Body Medium parameters used:
 $f = 5750 \text{ MHz}$; $\sigma = 6.094 \text{ S/m}$; $\epsilon_r = 46.569$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/10/2021; Ambient Temp: 22.0°C; Tissue Temp: 22.0°C

Probe: EX3DV4 - SN7637; ConvF(4.22, 4.22, 4.22) @ 5750 MHz; Calibrated: 03/03/2021
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1652; Calibrated: 03/01/2021
Phantom: Twin-SAM V5.0 (20); Type: QD 000 P40 CD; Serial: 1626
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

5750 MHz System Verification at 17.0 dBm (50 mW)

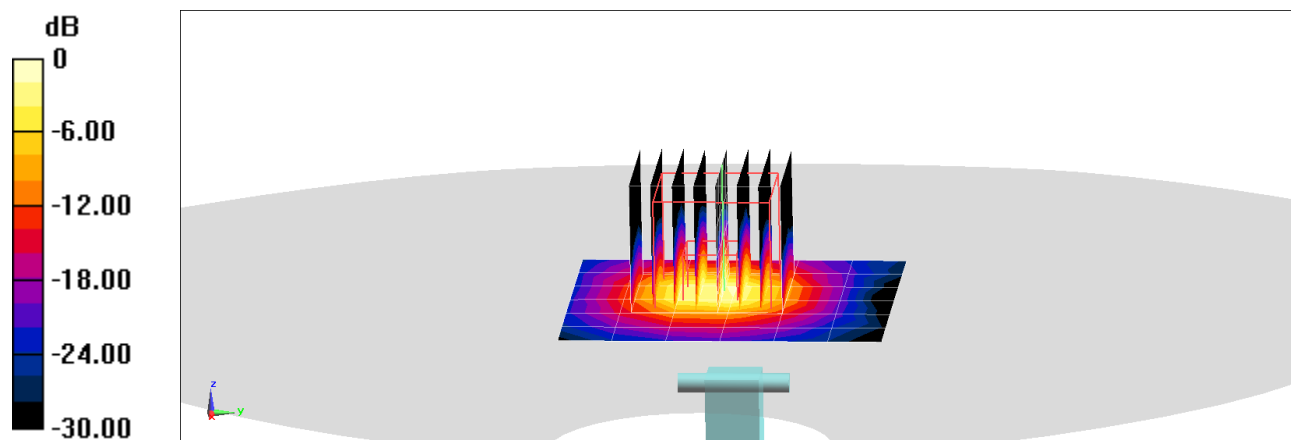
Area Scan (7x7x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Zoom Scan (8x8x7)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$

Peak SAR (extrapolated) = 16.4 W/kg

SAR(1 g) = 3.4 W/kg

Deviation(1 g) = -5.95%



0 dB = 8.67 W/kg = 9.38 dBW/kg