

750MHz

Date: 2017-11-9

Electronics: DAE4 Sn786

Medium: Body 750 MHz

Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.973 \text{ S/m}$; $\epsilon_r = 53.43$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.5°C Liquid Temperature: 22.0°C

Communication System: CW Frequency: 750 MHz Duty Cycle: 1:1

Probe: ES3DV3 - SN3151 ConvF (6.12, 6.12, 6.12)

System Validation /Area Scan (81x191x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Reference Value = 52.967 V/m ; Power Drift = -0.03 dB

Fast SAR: SAR(1 g) = 2.15 W/kg ; SAR(10 g) = 1.44 W/kg

Maximum value of SAR (interpolated) = 2.35 W/kg

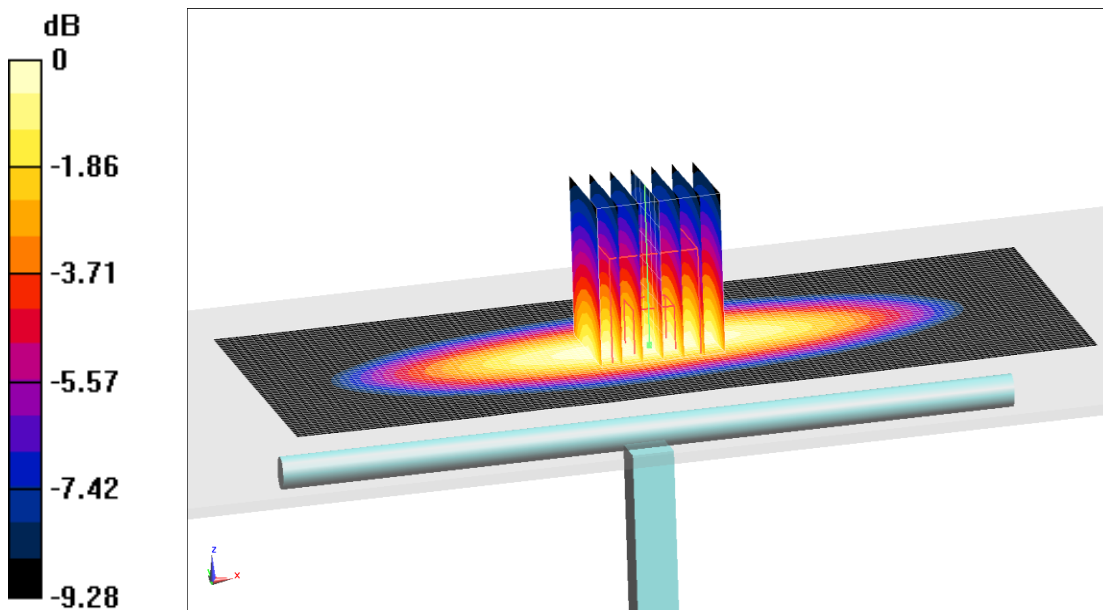
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 52.967 V/m ; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 2.52 W/kg

SAR(1 g) = 2.13 W/kg ; SAR(10 g) = 1.42 W/kg

Maximum value of SAR (measured) = 2.28 W/kg



0 dB = 2.28 W/kg = 3.58 dB W/kg

835MHz

Date: 2017-11-8

Electronics: DAE4 Sn786

Medium: Head 835 MHz

Medium parameters used: $f = 835$ MHz; $\sigma = 0.906$ S/m; $\epsilon_r = 43.107$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

Communication System: CW Frequency: 835 MHz Duty Cycle: 1:1

Probe: ES3DV3 - SN3151 ConvF (6.08, 6.08, 6.08)

System Validation /Area Scan (81x161x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Reference Value = 54.822 V/m; Power Drift = 0.08 dB

Fast SAR: SAR(1 g) = 2.32 W/kg; SAR(10 g) = 1.55 W/kg

Maximum value of SAR (interpolated) = 2.59 W/kg

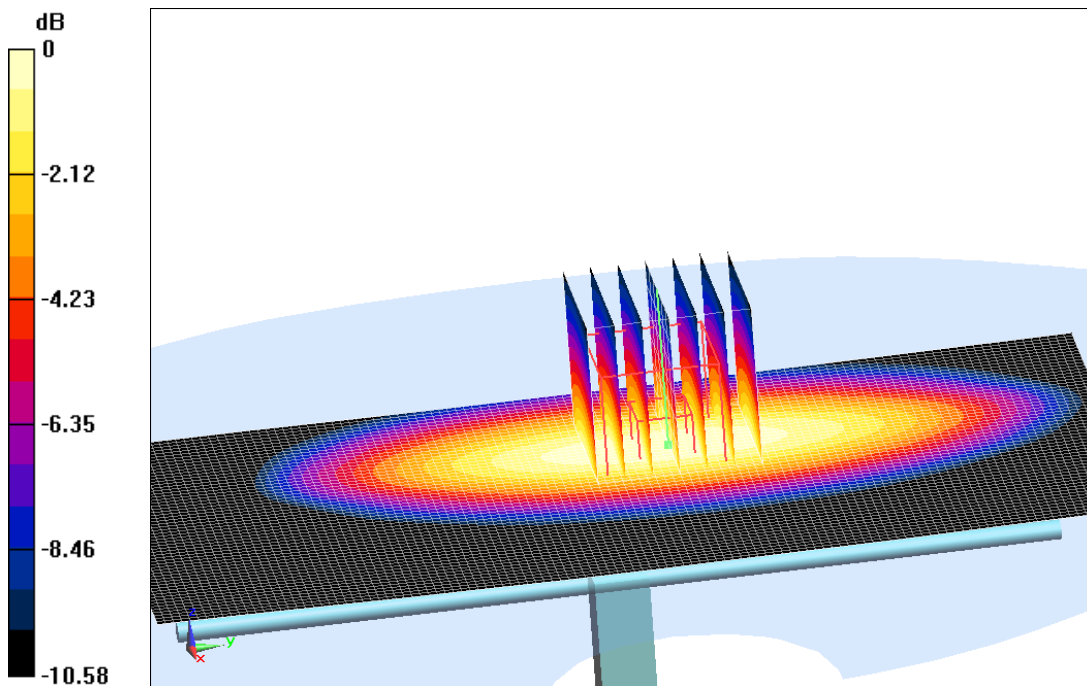
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 54.822 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 3.68 W/kg

SAR(1 g) = 2.28 W/kg; SAR(10 g) = 1.50 W/kg

Maximum value of SAR (measured) = 2.45 W/kg



0 dB = 2.45 W/kg = 3.89 dBW/kg

835MHz

Date: 2017-11-8

Electronics: DAE4 Sn786

Medium: Body 835 MHz

Medium parameters used: $f = 835$ MHz; $\sigma = 0.988$ S/m; $\epsilon_r = 53.692$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

Communication System: CW Frequency: 835 MHz Duty Cycle: 1:1

Probe: ES3DV3 - SN3151 ConvF (6.13, 6.13, 6.13)

System Validation /Area Scan (81x171x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Reference Value = 53.724 V/m; Power Drift = 0.05 dB

Fast SAR: SAR(1 g) = 2.32 W/kg; SAR(10 g) = 1.58 W/kg

Maximum value of SAR (interpolated) = 2.52 W/kg

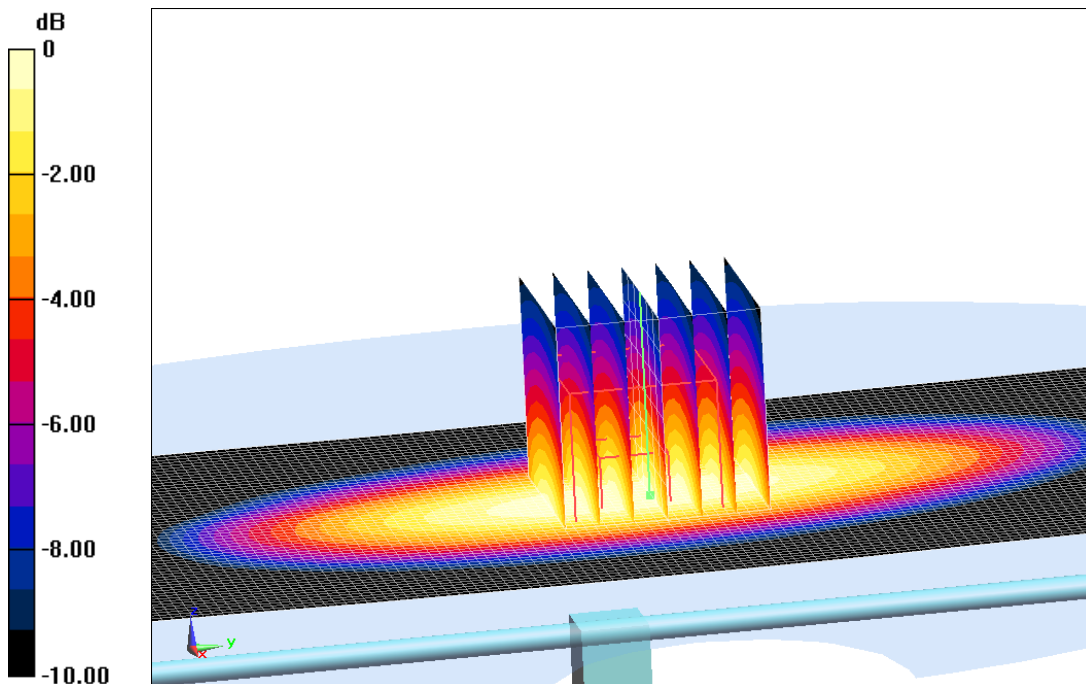
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 53.724 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 3.38 W/kg

SAR(1 g) = 2.29 W/kg; SAR(10 g) = 1.52 W/kg

Maximum value of SAR (measured) = 2.46 W/kg



0 dB = 2.46 W/kg = 3.91 dBW/kg

1800MHz

Date/Time: 2017-11-8

Electronics: DAE4 Sn786

Medium: Head 1800 MHz

Medium parameters used: $f = 1800$ MHz; $\sigma = 1.377$ S/m; $\epsilon_r = 39.17$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.0°C Liquid Temperature: 21.5°C

Communication System: CW Frequency: 1800 MHz Duty Cycle: 1:1

Probe: ES3DV3 - SN3151 ConvF (5.10, 5.10, 5.10);

System Validation/Area Scan (61x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Reference Value = 80.418 V/m; Power Drift = 0.07 dB

Fast SAR: SAR(1 g) = 9.58 W/kg; SAR(10 g) = 5.17 W/kg

Maximum value of SAR (interpolated) = 12.2 W/kg

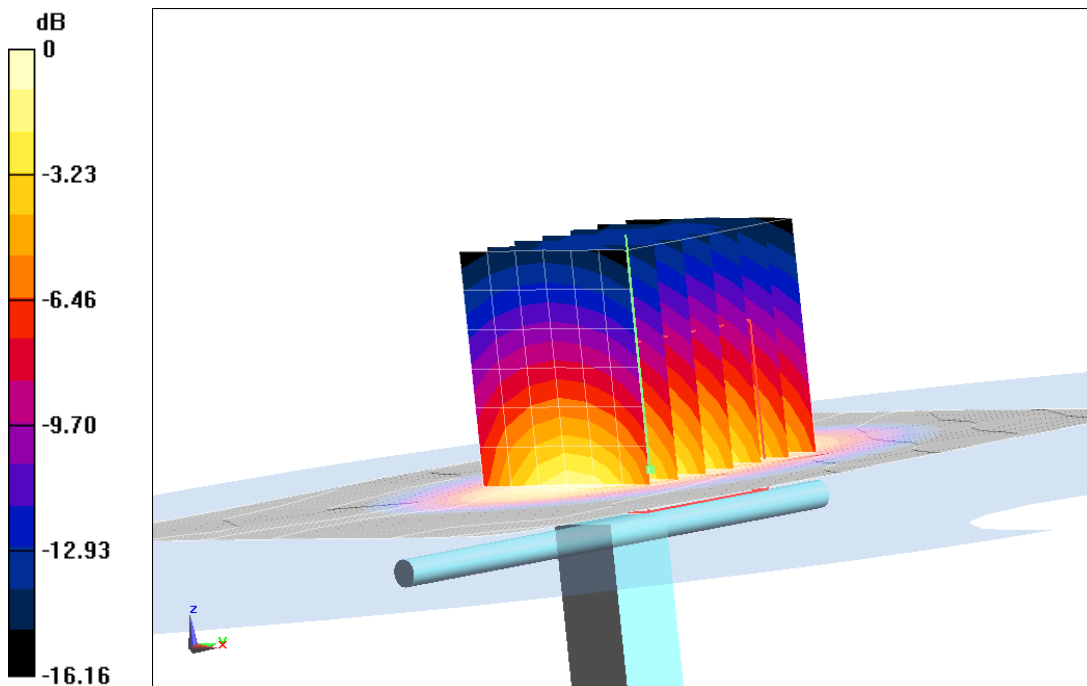
System Validation/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 80.418 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 18.8 W/kg

SAR(1 g) = 9.52 W/kg; SAR(10 g) = 5.10 W/kg

Maximum value of SAR (measured) = 11.5 W/kg



0 dB = 11.5 W/kg = 10.61 dBW/kg

1800MHz

Date/Time: 2017-11-8

Electronics: DAE4 Sn786

Medium: Body 1800 MHz

Medium parameters used: $f = 1800$ MHz; $\sigma = 1.487$ S/m; $\epsilon_r = 53.08$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.0°C Liquid Temperature: 21.5°C

Communication System: CW Frequency: 1800 MHz Duty Cycle: 1:1

Probe: ES3DV3 - SN3151 ConvF (4.95, 4.95, 4.95);

System Validation/Area Scan (61x121x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Reference Value = 76.943 V/m; Power Drift = 0.10 dB

Fast SAR: SAR(1 g) = 9.82 W/kg; SAR(10 g) = 5.19 W/kg

Maximum value of SAR (interpolated) = 12.8 W/kg

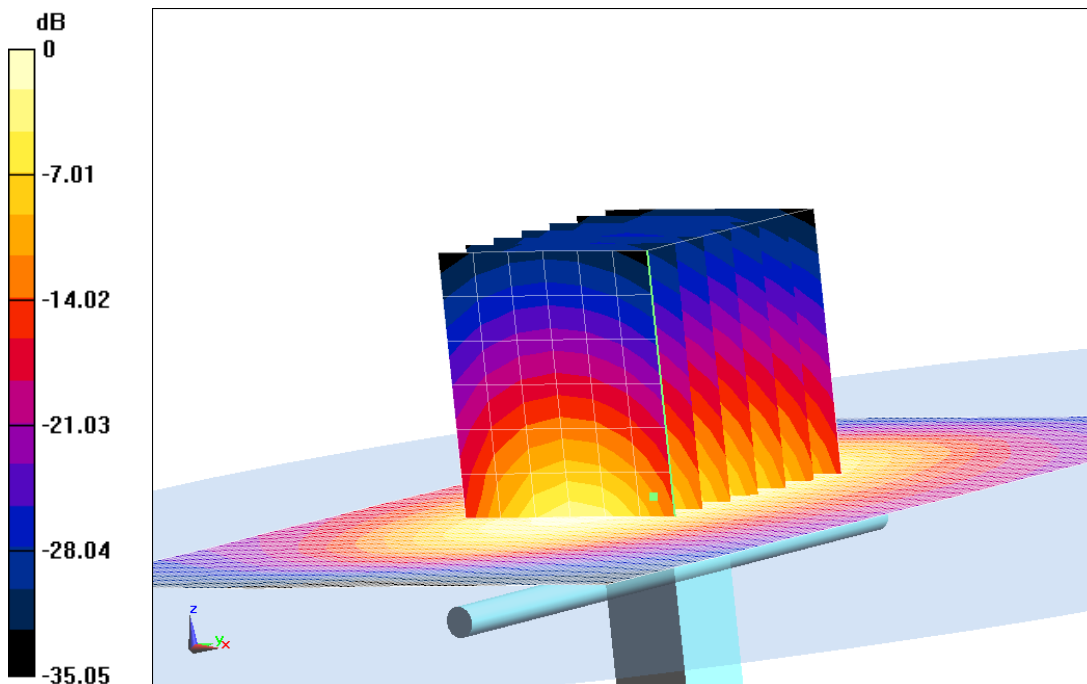
System Validation/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 76.943 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 17.7 W/kg

SAR(1 g) = 9.66 W/kg; SAR(10 g) = 5.17 W/kg

Maximum value of SAR (measured) = 12.2 W/kg



0 dB = 12.2 W/kg = 10.86 dBW/kg

1900MHz

Date: 2017-11-8

Electronics: DAE4 Sn786

Medium: Head 1900 MHz

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.413$ S/m; $\epsilon_r = 38.713$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

Communication System: CW Frequency: 1900 MHz Duty Cycle: 1:1

Probe: ES3DV3 - SN3151 ConvF (4.88, 4.88, 4.88)

System Validation /Area Scan (81x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Reference Value = 92.535 V/m; Power Drift = -0.09 dB

Fast SAR: SAR(1 g) = 10.5 W/kg; SAR(10 g) = 5.38 W/kg

Maximum value of SAR (interpolated) = 12.5 W/kg

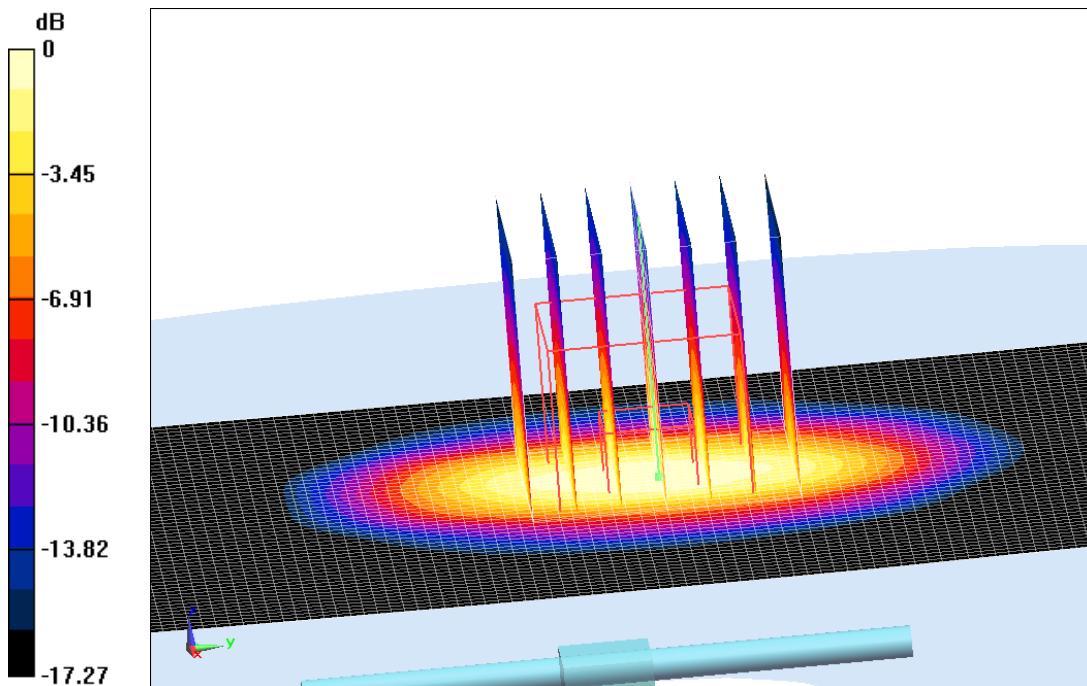
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 92.535 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 18.4 W/kg

SAR(1 g) = 10.4 W/kg; SAR(10 g) = 5.33 W/kg

Maximum value of SAR (measured) = 12.1 W/kg



0 dB = 12.1 W/kg = 10.83 dBW/kg

1900MHz

Date: 2017-11-8

Electronics: DAE4 Sn786

Medium: Body 1900 MHz

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.564$ S/m; $\epsilon_r = 52.661$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

Communication System: CW Frequency: 1900 MHz Duty Cycle: 1:1

Probe: ES3DV3 - SN3151 ConvF (4.49, 4.49, 4.49)

System validation /Area Scan (81x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Reference Value = 65.458 V/m; Power Drift = 0.05 dB

Fast SAR: SAR(1 g) = 10.7 W/kg; SAR(10 g) = 5.51 W/kg

Maximum value of SAR (interpolated) = 12.7 W/kg

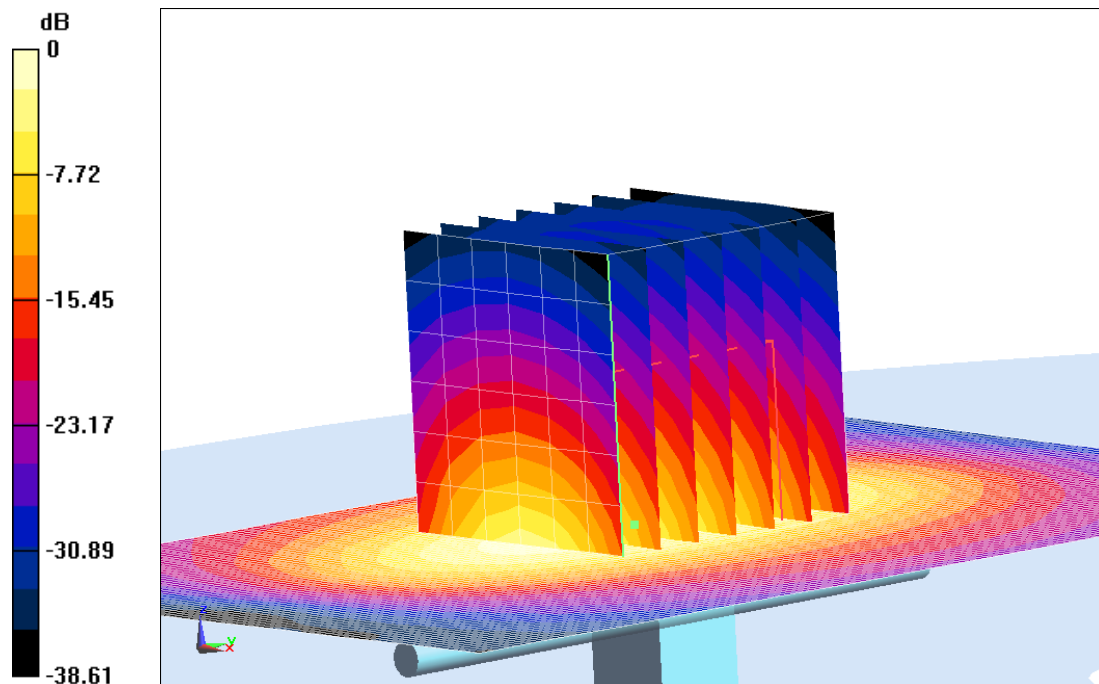
System validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 65.458 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 18.9 W/kg

SAR(1 g) = 10.6 W/kg; SAR(10 g) = 5.46 W/kg

Maximum value of SAR (measured) = 12.3 W/kg



0 dB = 12.3 W/kg = 10.90 dBW/kg

2450MHz

Date: 2017-11-9

Electronics: DAE4 Sn786

Medium: Head 2450 MHz

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.861$ S/m; $\epsilon_r = 38.744$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.0°C Liquid Temperature: 21.6°C

Communication System: CW Frequency: 2450 MHz Duty Cycle: 1:1

Probe: ES3DV3 - SN3151 ConvF (4.44, 4.44, 4.44)

System Validation /Area Scan (61x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Reference Value = 88.668 V/m; Power Drift = 0.03 dB

Fast SAR: SAR(1 g) = 13.6 W/kg; SAR(10 g) = 6.14 W/kg

Maximum value of SAR (interpolated) = 17.3 W/kg

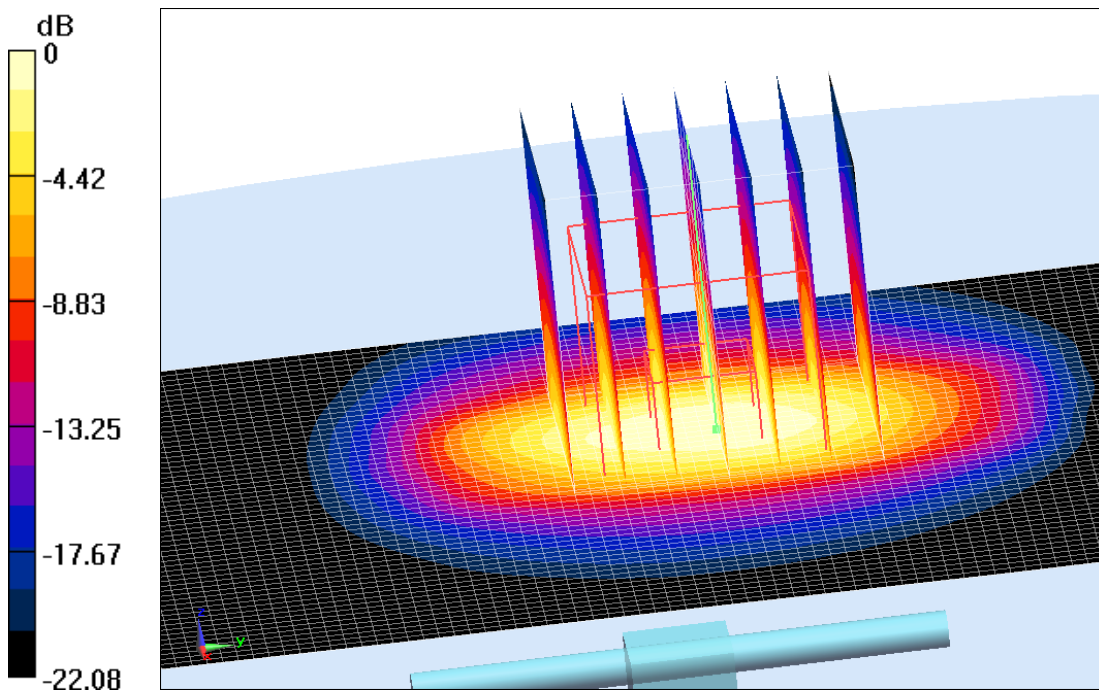
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 88.668 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 24.8 W/kg

SAR(1 g) = 13.3 W/kg; SAR(10 g) = 6.08 W/kg

Maximum value of SAR (measured) = 16.2 W/kg



0 dB = 16.2 W/kg = 12.09 dBW/kg

2450MHz

Date: 2017-11-9

Electronics: DAE4 Sn786

Medium: Body 2450 MHz

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.926$ S/m; $\epsilon_r = 51.652$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.0°C Liquid Temperature: 21.6°C

Communication System: CW Frequency: 2450 MHz Duty Cycle: 1:1

Probe: ES3DV3 - SN3151 ConvF (4.23, 4.23, 4.23)

System Validation/Area Scan (81x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Reference Value = 88.722 V/m; Power Drift = -0.06 dB

Fast SAR: SAR(1 g) = 13.0 W/kg; SAR(10 g) = 6.18 W/kg

Maximum value of SAR (interpolated) = 15.1 W/kg

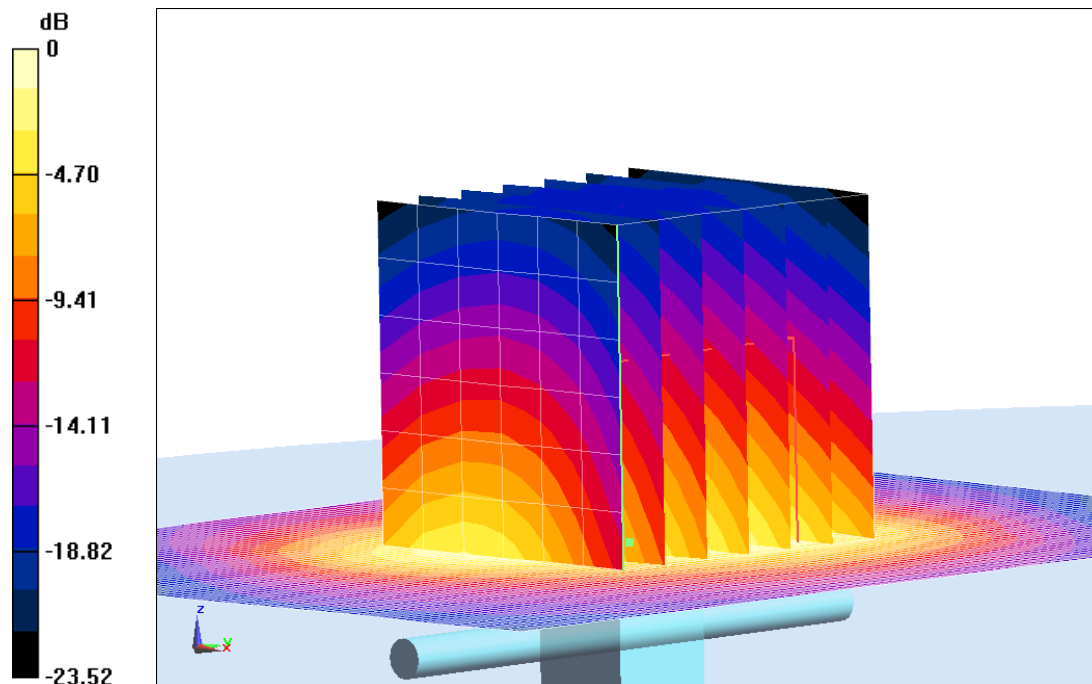
System Validation/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 88.722 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 27.4 W/kg

SAR(1 g) = 12.8 W/kg; SAR(10 g) = 6.06 W/kg

Maximum value of SAR (measured) = 14.6 W/kg



0 dB = 14.6 W/kg = 11.64 dB W/kg