

Test Laboratory: UL CCS SAR Lab A

LTE Band 4_1.4M_Body-Worn

Communication System: LTE 1.4MHz; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.464$ mho/m; $\epsilon_r = 52.576$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Room Ambient Temperature: 24.0 deg. C; Liquid Temperature: 23.0 deg. C

DASY5 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3686; ConvF(7.28, 7.28, 7.28); Calibrated: 1/24/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1239; Calibrated: 11/17/2010
- Phantom: SAM with CRP v5.0 (A); Type: QD000P40CD; Serial: 1602
- Measurement SW: DASY52, Version 52.6 (2);SEMCAD X Version 14.4.5 (3634)

Rear 1.4 MHz/16QAM_#RB6_RB0_M-ch_VOLUME 2/Volume Scan (14x21x7): Measurement

grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.912 V/m; Power Drift = -0.09 dB

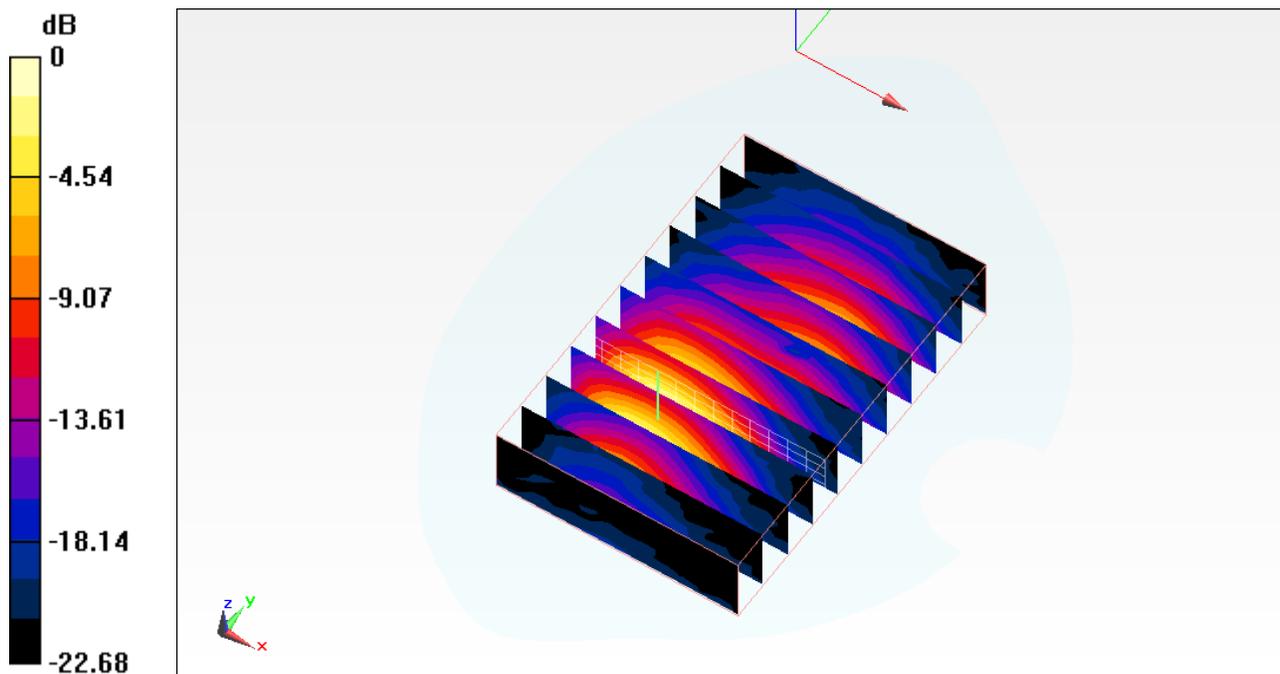
Peak SAR (extrapolated) = 0.875 W/kg

SAR(1 g) = 0.516 mW/g; SAR(10 g) = 0.299 mW/g

Total Absorbed Power = 0.0197281 W

Info: [Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.634 mW/g



0 dB = 0.630mW/g

Test Laboratory: UL CCS SAR Lab A

Volume Scan LTE Band 4_3M_Body-Worn

Communication System: LTE 3MHz; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.464$ mho/m; $\epsilon_r = 52.576$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Room Ambient Temperature: 24.0 deg. C; Liquid Temperature: 23.0 deg. C

DASY5 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3686; ConvF(7.28, 7.28, 7.28); Calibrated: 1/24/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1239; Calibrated: 11/17/2010
- Phantom: SAM with CRP v5.0 (A); Type: QD000P40CD; Serial: 1602
- Measurement SW: DASY52, Version 52.6 (2);SEMCAD X Version 14.4.5 (3634)

Rear/Volume_QPSK_#RB8_RB4_M-ch/Volume Scan (14x21x7): Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.834 V/m; Power Drift = -0.12 dB

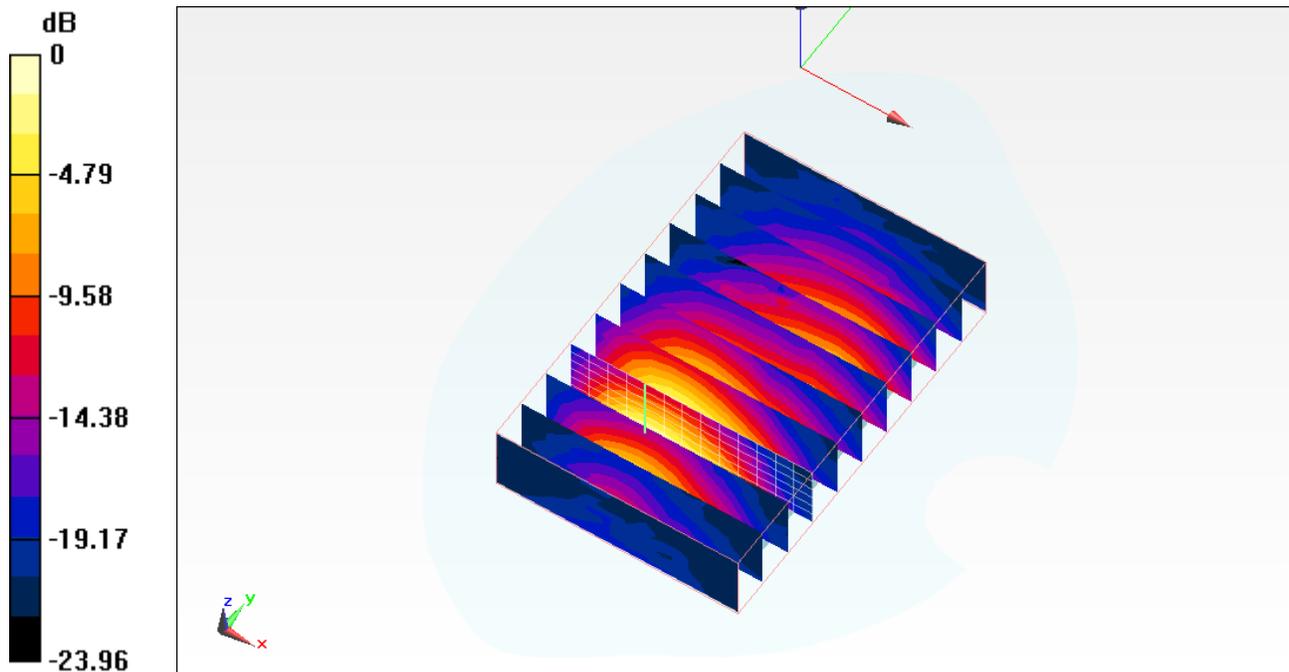
Peak SAR (extrapolated) = 0.827 W/kg

SAR(1 g) = 0.483 mW/g; SAR(10 g) = 0.279 mW/g

Total Absorbed Power = 0.0191126 W

Info: [Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.608 mW/g



0 dB = 0.610mW/g

Test Laboratory: UL CCS SAR Lab A

Volume Scan LTE Band 4_5M_Body-Worn

Communication System: LTE; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.464$ mho/m; $\epsilon_r = 52.576$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Room Ambient Temperature: 24.0 deg. C; Liquid Temperature: 23.0 deg. C

DASY5 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3686; ConvF(7.28, 7.28, 7.28); Calibrated: 1/24/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1239; Calibrated: 11/17/2010
- Phantom: SAM with CRP v5.0 (A); Type: QD000P40CD; Serial: 1602
- Measurement SW: DASY52, Version 52.6 (2);SEMCAD X Version 14.4.5 (3634)

Rear/16QAM_#RB1_RB24_M-ch VOL/Volume Scan (14x21x7): Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.148 V/m; Power Drift = -0.0021 dB

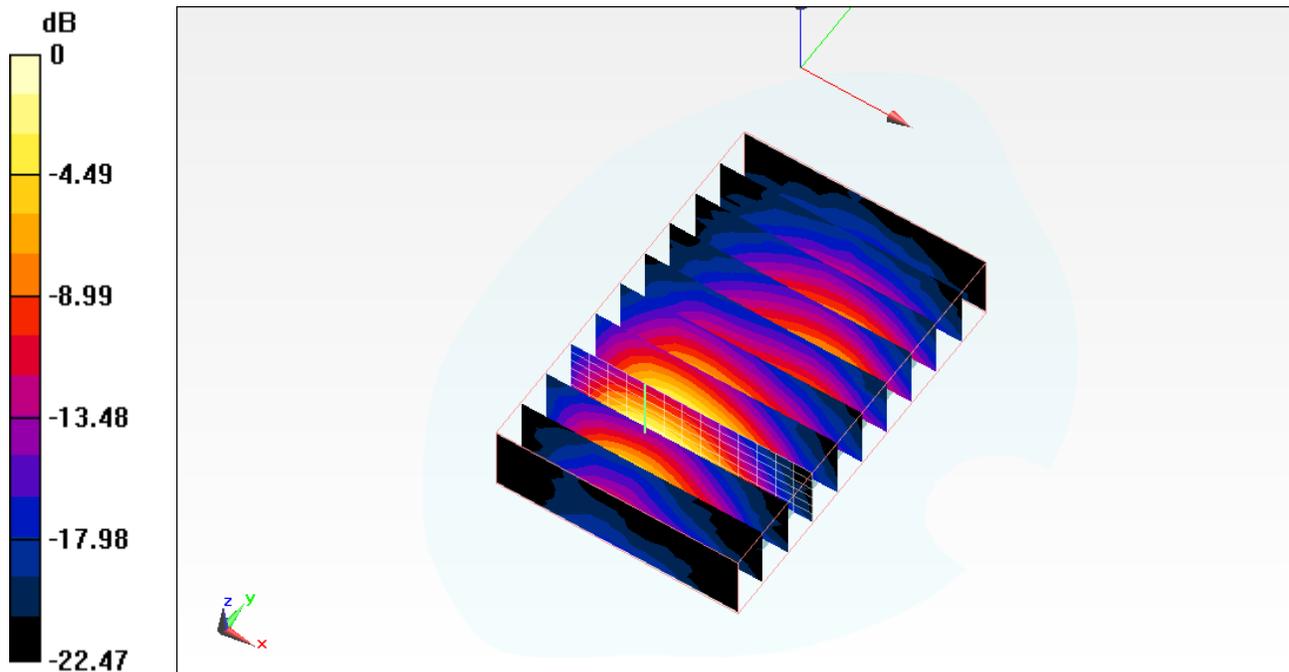
Peak SAR (extrapolated) = 0.847 W/kg

SAR(1 g) = 0.498 mW/g; SAR(10 g) = 0.288 mW/g

Total Absorbed Power = 0.0212206 W

Info: [Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.636 mW/g



0 dB = 0.640mW/g

Test Laboratory: UL CCS SAR Lab A

LTE Band 2_1.4M_Body-Worn

Communication System: LTE; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.513$ mho/m; $\epsilon_r = 51.442$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

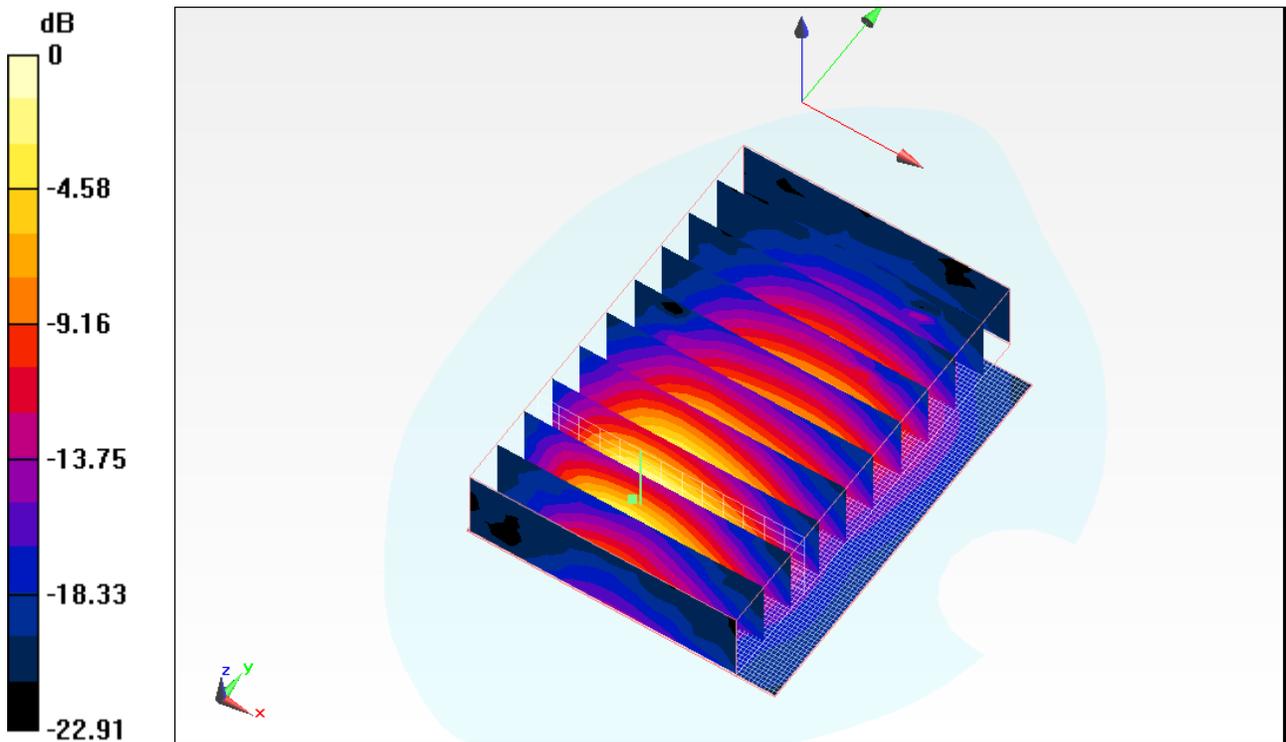
Room Ambient Temperature: 24.0 deg. C; Liquid Temperature: 23.0 deg. C

DASY5 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3686; ConvF(6.99, 6.99, 6.99); Calibrated: 1/24/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1239; Calibrated: 11/17/2010
- Phantom: SAM with CRP v5.0 (A); Type: QD000P40CD; Serial: 1602
- Measurement SW: DASY52, Version 52.6 (2);SEMCAD X Version 14.4.5 (3634)

Rear 1.4 MHz/QPSK_#RB1_RB5_M-ch/Area Scan (81x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.656 mW/g

Rear 1.4 MHz/QPSK_#RB1_RB5_M-ch/Volume Scan (14x21x7): Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 18.894 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 0.893 W/kg
SAR(1 g) = 0.527 mW/g; SAR(10 g) = 0.306 mW/g
Total Absorbed Power = 0.0253261 W
Maximum value of SAR (measured) = 0.645 mW/g



0 dB = 0.640mW/g

Test Laboratory: UL CCS SAR Lab A

Volume Scan LTE Band 2_3M_Body-Worn

Communication System: LTE; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.513$ mho/m; $\epsilon_r = 51.442$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

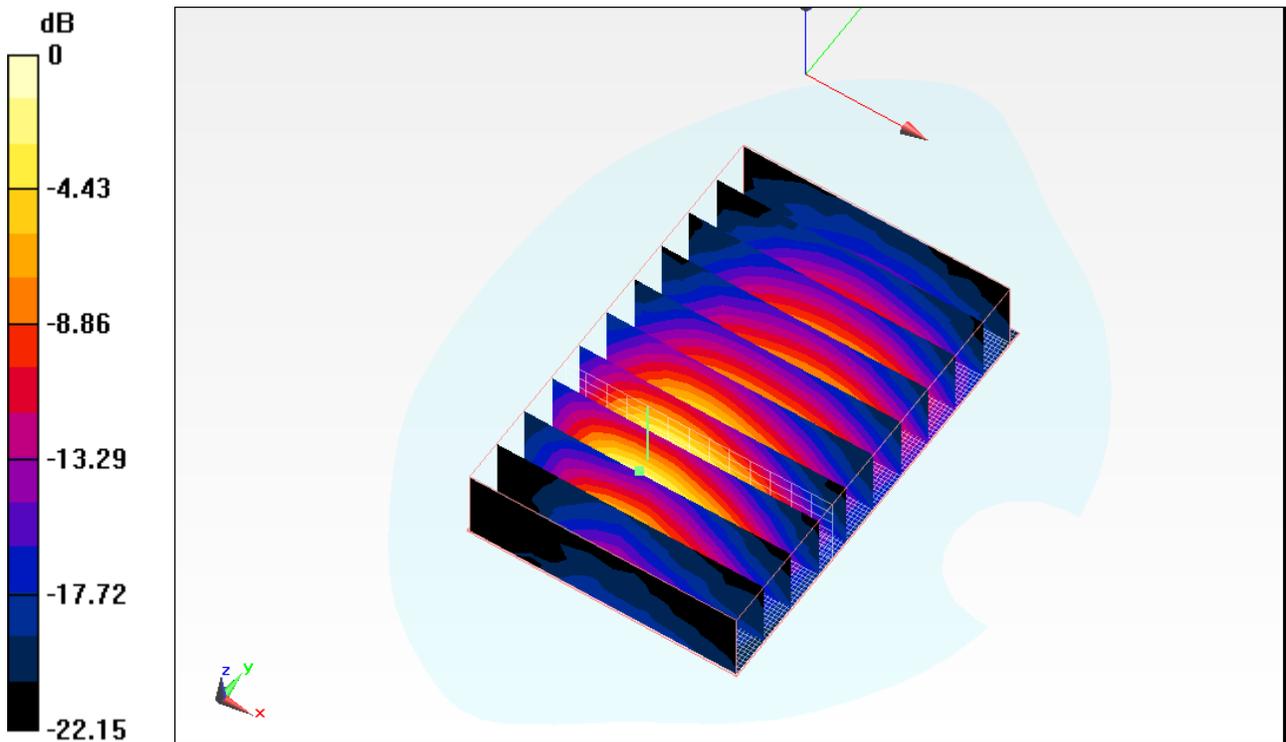
Room Ambient Temperature: 24.0 deg. C; Liquid Temperature: 23.0 deg. C

DASY5 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3686; ConvF(6.99, 6.99, 6.99); Calibrated: 1/24/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1239; Calibrated: 11/17/2010
- Phantom: SAM with CRP v5.0 (A); Type: QD000P40CD; Serial: 1602
- Measurement SW: DASY52, Version 52.6 (2);SEMCAD X Version 14.4.5 (3634)

Rear/Volume_QPSK_#RB1_RB0_M-ch/Area Scan (71x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.745 mW/g

Rear/Volume_QPSK_#RB1_RB0_M-ch/Volume Scan (14x21x7): Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 20.089 V/m; Power Drift = -0.15 dB
Peak SAR (extrapolated) = 0.911 W/kg
SAR(1 g) = 0.536 mW/g; SAR(10 g) = 0.314 mW/g
Total Absorbed Power = 0.0256825 W
Maximum value of SAR (measured) = 0.673 mW/g



0 dB = 0.670mW/g

Test Laboratory: UL CCS SAR Lab A

LTE Band 2_5MHz_Body-Worn

Communication System: LTE; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.513$ mho/m; $\epsilon_r = 51.442$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

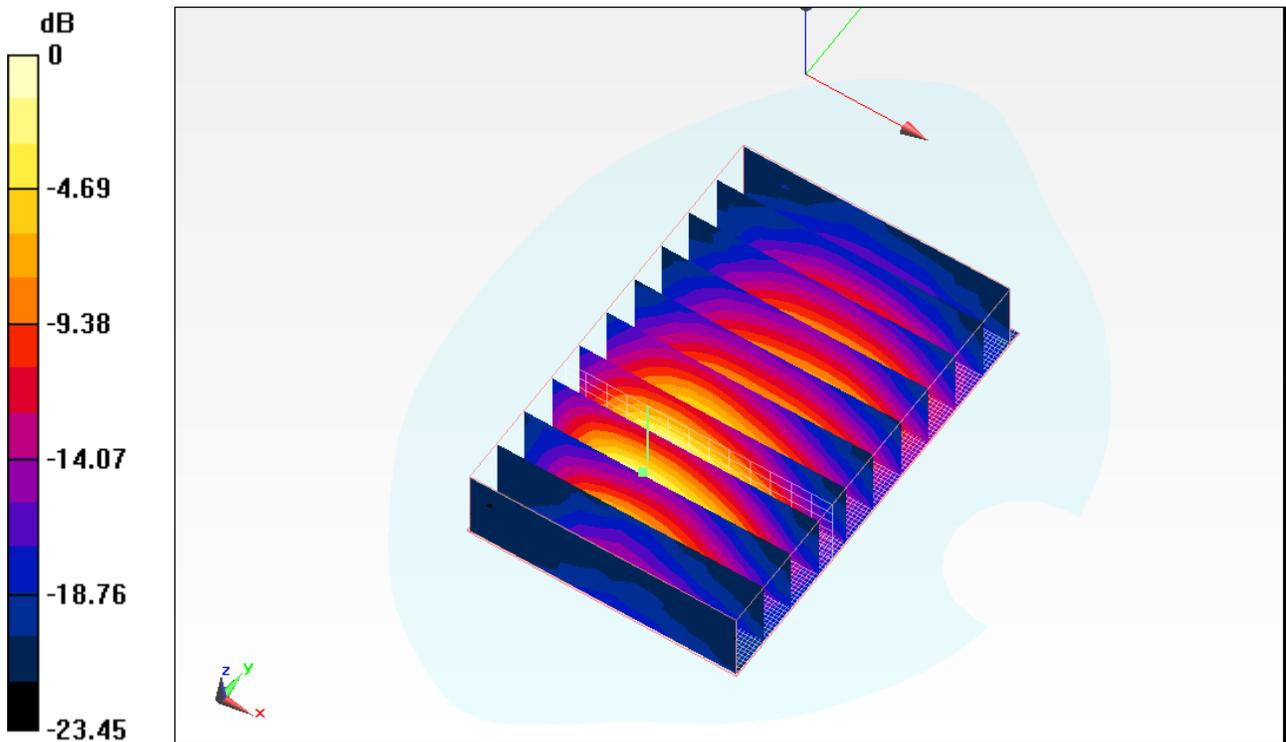
Room Ambient Temperature: 24.0 deg. C; Liquid Temperature: 23.0 deg. C

DASY5 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3686; ConvF(6.99, 6.99, 6.99); Calibrated: 1/24/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1239; Calibrated: 11/17/2010
- Phantom: SAM with CRP v5.0 (A); Type: QD000P40CD; Serial: 1602
- Measurement SW: DASY52, Version 52.6 (2);SEMCAD X Version 14.4.5 (3634)

Rear 5 MHz/16QAM_#RB25_RB0_M-ch/Area Scan (71x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.774 mW/g

Rear 5 MHz/16QAM_#RB25_RB0_M-ch/Volume Scan (14x21x7): Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 19.956 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 0.958 W/kg
SAR(1 g) = 0.564 mW/g; SAR(10 g) = 0.329 mW/g
Total Absorbed Power = 0.0272624 W
Maximum value of SAR (measured) = 0.709 mW/g



0 dB = 0.710mW/g