

Test Laboratory: UL CCS SAR Lab B

**CDMA BC1\_Head\_1xRTT RC3 SO55**

Communication System: CDMA2000; Frequency: 1908.75 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1908.75$  MHz;  $\sigma = 1.423$  mho/m;  $\epsilon_r = 40.36$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left 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 - SN3773; ConvF(7.3, 7.3, 7.3); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
- Phantom: SAM with CRP v5.0; Type: QD000P40CD; Serial: TP1632
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

**LHS/Touch\_H ch\_Vol. Scan/Volume Scan (16x21x7):** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.816 V/m; Power Drift = 0.15 dB

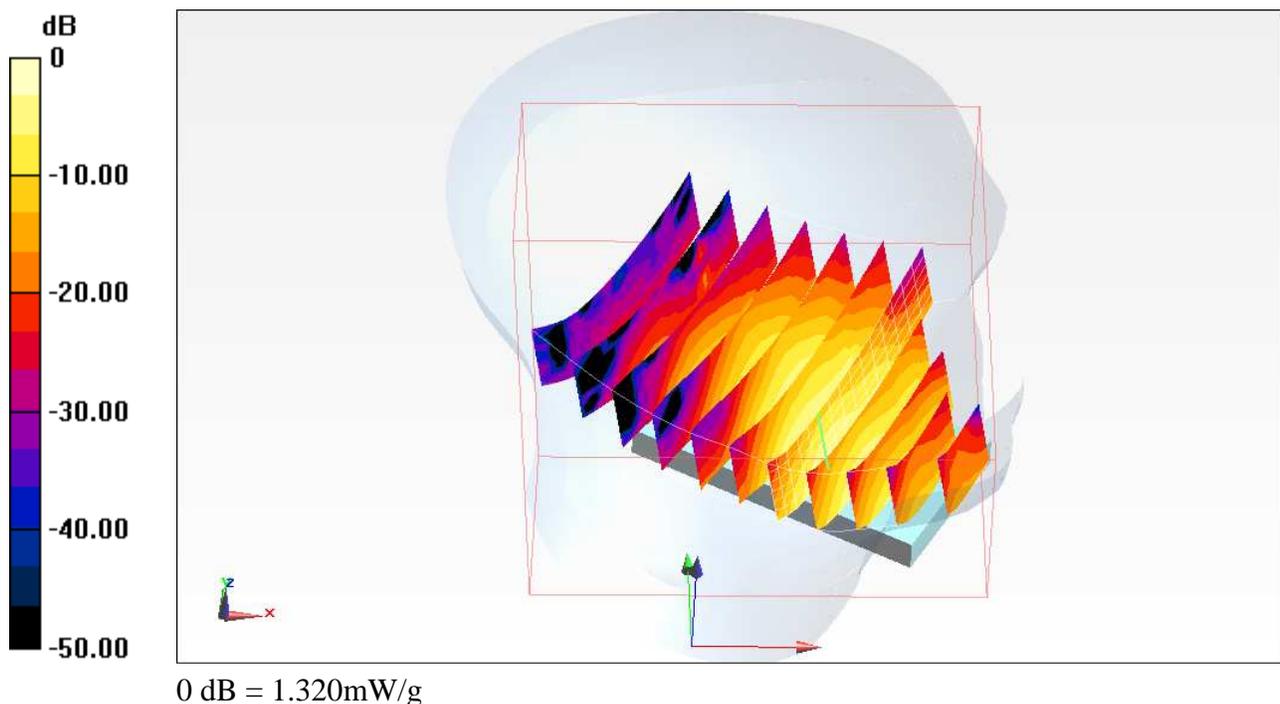
Peak SAR (extrapolated) = 1.605 W/kg

**SAR(1 g) = 1.04 mW/g; SAR(10 g) = 0.614 mW/g**

Total Absorbed Power = 0.0577984 W

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

Maximum value of SAR (measured) = 1.319 mW/g



Test Laboratory: UL CCS SAR Lab B

## LTE Band 25\_Head

Communication System: LTE; Frequency: 1912.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1912.5$  MHz;  $\sigma = 1.403$  mho/m;  $\epsilon_r = 39.729$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section

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

DASY5 Configuration:

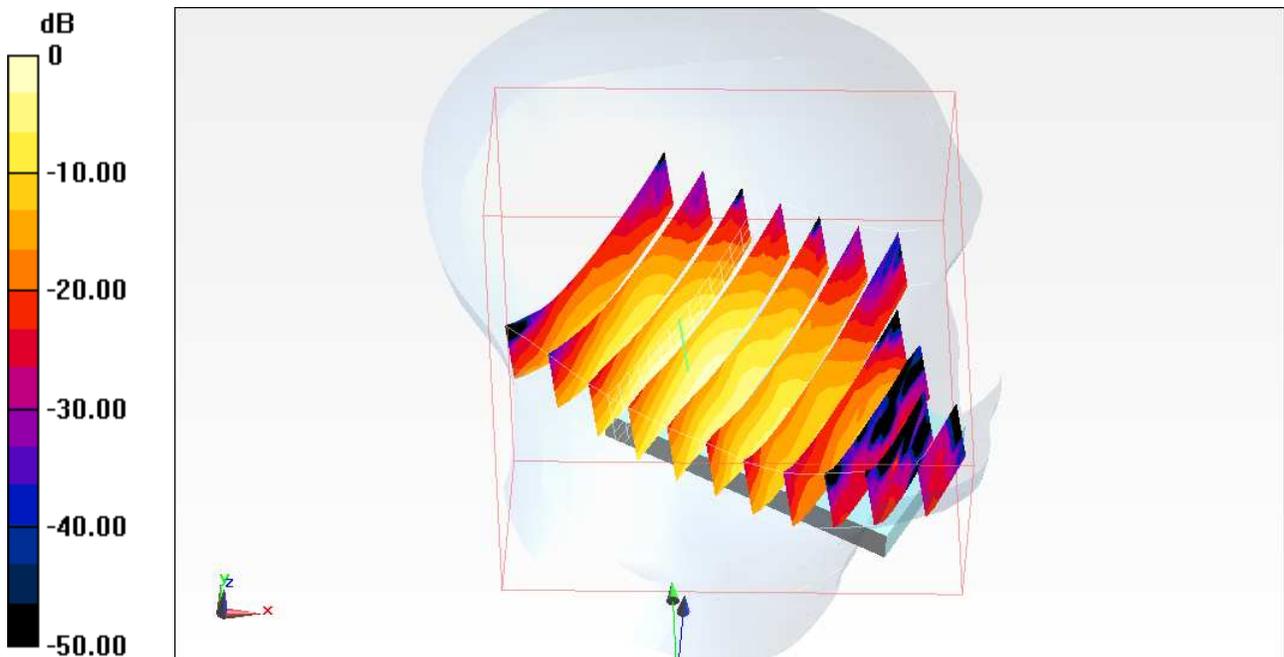
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3773; ConvF(7.12, 7.12, 7.12); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
- Phantom: SAM with CRP v5.0; Type: QD000P40CD; Serial: TP1632
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

## LHS/Touch\_QPSK\_5MHz\_RB1\_RB0\_H-Ch\_Vol. Scan/Volume Scan (16x21x7):

Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 21.813 V/m; Power Drift = 0.14 dB  
Peak SAR (extrapolated) = 0.952 W/kg  
**SAR(1 g) = 0.597 mW/g; SAR(10 g) = 0.359 mW/g**  
Total Absorbed Power = 0.0283286 W

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

Maximum value of SAR (measured) = 0.746 mW/g



0 dB = 0.750mW/g

Test Laboratory: UL CCS SAR Lab A

**WiFi\_2.4GHz\_Head**

Communication System: WLAN\_2.4GHz; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2462$  MHz;  $\sigma = 1.861$  mho/m;  $\epsilon_r = 38.443$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left 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 - SN3773; ConvF(6.56, 6.56, 6.56); Calibrated: 5/3/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
- Phantom: SAM with CRP v5.0; Type: QD000P40CD; Serial: TP1632
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

**LHS/Touch\_H ch/Volume Scan (16x21x7):** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.904 V/m; Power Drift = -0.18 dB

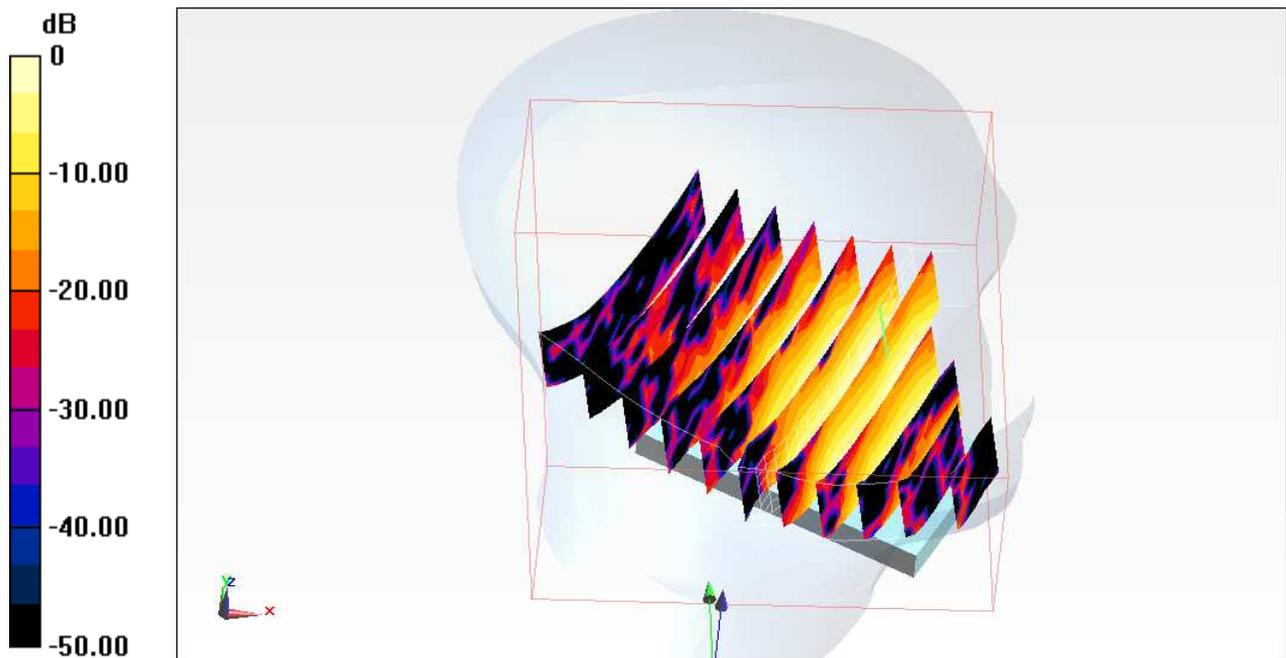
Peak SAR (extrapolated) = 0.197 W/kg

**SAR(1 g) = 0.109 mW/g; SAR(10 g) = 0.056 mW/g**

Total Absorbed Power = 0.0066719 W

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

Maximum value of SAR (measured) = 0.118 mW/g



0 dB = 0.120mW/g

Test Laboratory: UL CCS SAR Lab B

## CDMA BC1\_Head\_1xRTT RC3 SO55

Communication System: CDMA2000; Frequency: 1880 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.393$  mho/m;  $\epsilon_r = 40.435$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right 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 - SN3773; ConvF(7.3, 7.3, 7.3); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
- Phantom: SAM with CRP v5.0; Type: QD000P40CD; Serial: TP1632
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

**RHS/Touch\_M ch /Volume Scan (16x21x7):** Measurement grid: dx=8mm, dy=8mm, dz=5mm

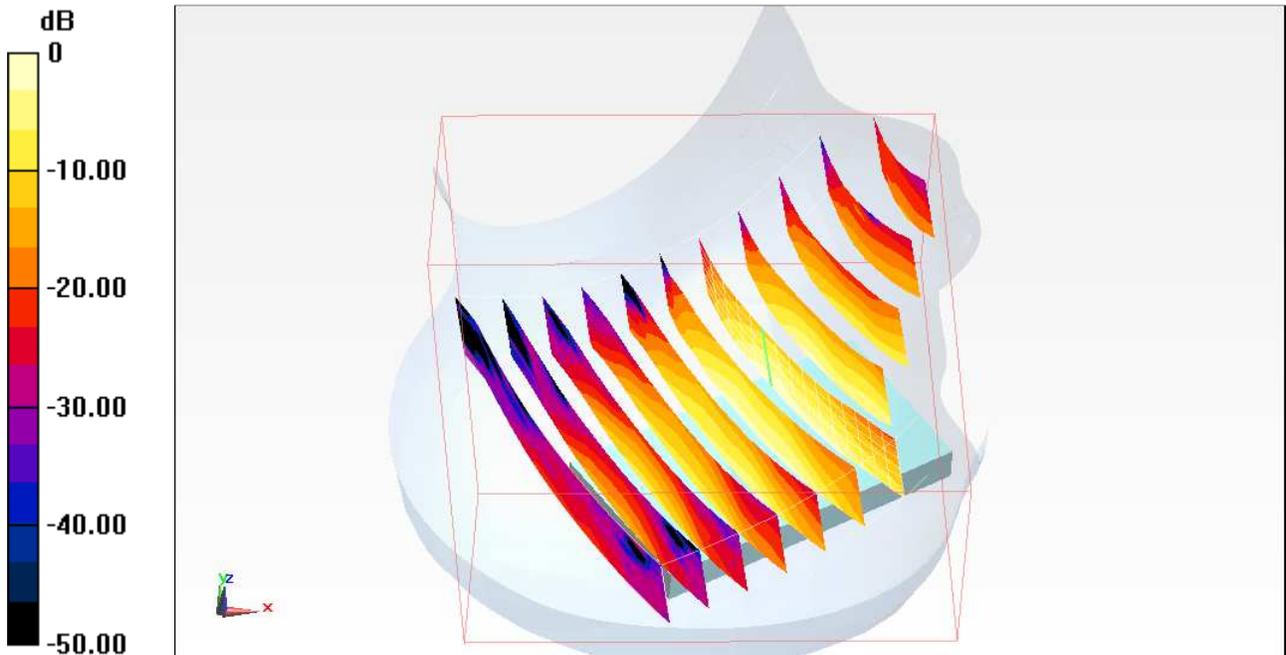
Reference Value = 23.214 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 1.073 W/kg

**SAR(1 g) = 0.694 mW/g; SAR(10 g) = 0.425 mW/g**

Total Absorbed Power = 0.047774 W

Maximum value of SAR (measured) = 0.840 mW/g



0 dB = 0.840mW/g

Test Laboratory: UL CCS SAR Lab B

## LTE Band 25\_Head

Communication System: LTE; Frequency: 1882.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1882.5$  MHz;  $\sigma = 1.373$  mho/m;  $\epsilon_r = 39.844$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section

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

DASY5 Configuration:

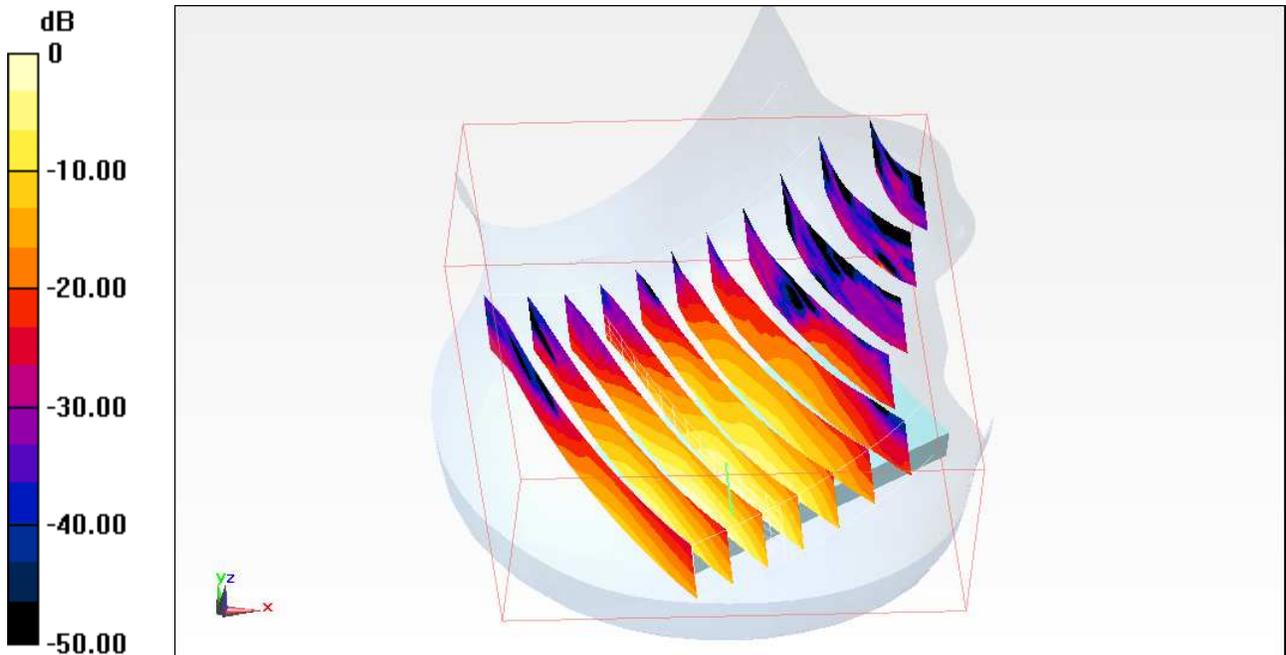
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3773; ConvF(7.3, 7.3, 7.3); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
- Phantom: SAM with CRP v5.0; Type: QD000P40CD; Serial: TP1632
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

## RHS/Touch\_QPSK\_5MHz\_RB1\_RB24\_M-Ch\_Vol. Scan/Volume Scan (16x21x7):

Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 27.112 V/m; Power Drift = -0.10 dB  
Peak SAR (extrapolated) = 1.319 W/kg  
**SAR(1 g) = 0.754 mW/g; SAR(10 g) = 0.445 mW/g**  
Total Absorbed Power = 0.028189 W

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

Maximum value of SAR (measured) = 0.949 mW/g



0 dB = 0.950mW/g

Test Laboratory: UL CCS SAR Lab A

## WiFi\_2.4GHz\_Head

Communication System: WLAN\_2.4GHz; Frequency: 2462 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2462$  MHz;  $\sigma = 1.861$  mho/m;  $\epsilon_r = 38.443$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right 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 - SN3773; ConvF(6.56, 6.56, 6.56); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
- Phantom: SAM with CRP v5.0; Type: QD000P40CD; Serial: TP1632
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

**RHS/Touch\_H ch/Volume Scan (16x21x7):** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.661 V/m; Power Drift = -0.13 dB

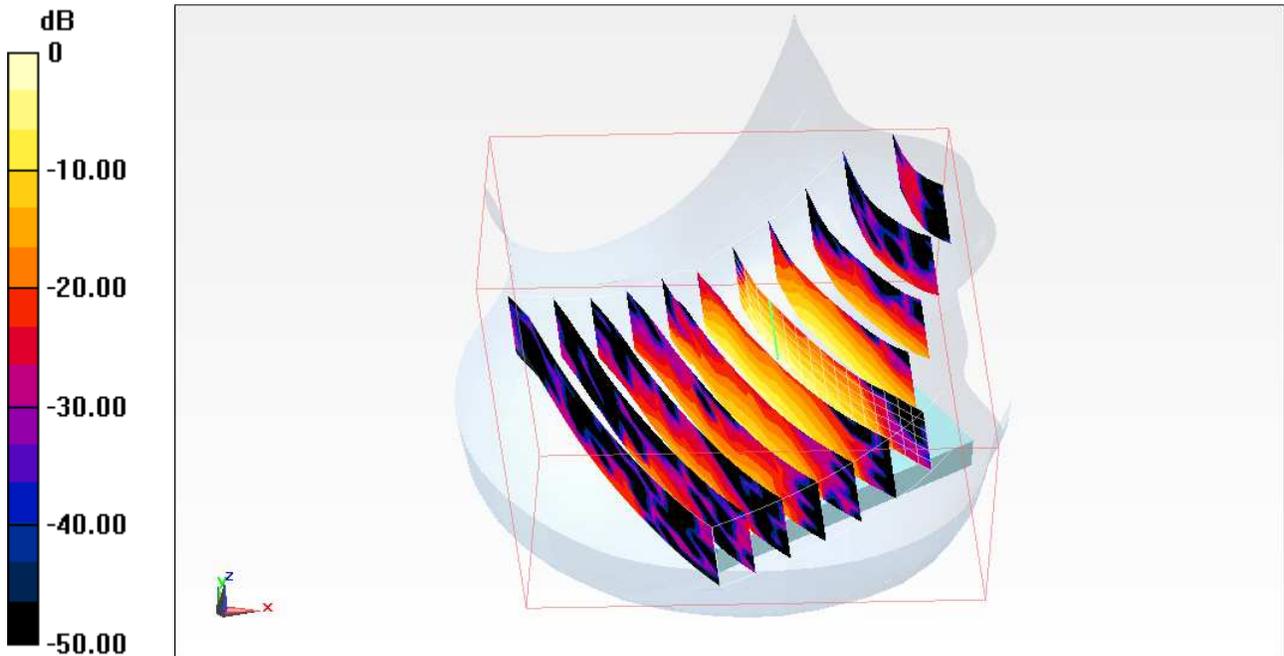
Peak SAR (extrapolated) = 0.537 W/kg

**SAR(1 g) = 0.235 mW/g; SAR(10 g) = 0.109 mW/g**

Total Absorbed Power = 0.00575478 W

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

Maximum value of SAR (measured) = 0.327 mW/g



0 dB = 0.330mW/g

Test Laboratory: UL CCS SAR Lab C

## CDMA BC10\_Body worn

Communication System: CDMA2000; Frequency: 820.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 820.5$  MHz;  $\sigma = 0.965$  mho/m;  $\epsilon_r = 54.053$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
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 - SN3772; ConvF(8.57, 8.57, 8.57); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1239; Calibrated: 10/18/2011
- Phantom: ELI v4.0 (B); Type: QDOVA001BB; Serial: 1121
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

## CDMA BC10(800)\_1xRTT\_RC3, SO32/Rear\_Mid-Ch/Volume Scan (16x21x7): Measurement

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

Reference Value = 30.226 V/m; Power Drift = -0.08 dB

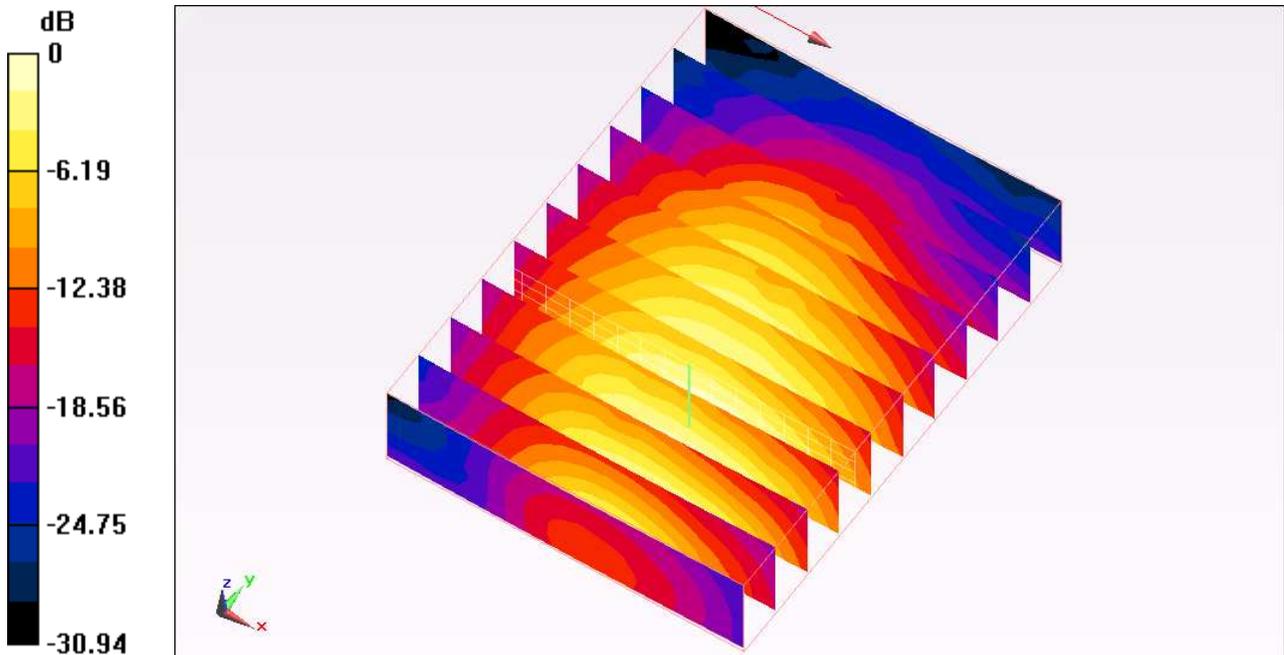
Peak SAR (extrapolated) = 1.197 W/kg

**SAR(1 g) = 0.842 mW/g; SAR(10 g) = 0.589 mW/g**

Total Absorbed Power = 0.0820078 W

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

Maximum value of SAR (measured) = 0.978 mW/g



0 dB = 0.980mW/g

Test Laboratory: UL CCS SAR Lab B

## LTE Band 25\_Body

Communication System: LTE; Frequency: 1882.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1882.5$  MHz;  $\sigma = 1.47$  mho/m;  $\epsilon_r = 52.824$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
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 - SN3773; ConvF(7.37, 7.37, 7.37); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
- Phantom: ELI v5.0 (B); Type: QDOVA001BB; Serial: 1118
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

### Rear/QPSK\_5MHz\_RB1\_RB24\_M-Ch\_Vol. Scan/Volume Scan (16x21x7): Measurement grid:

$dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 23.763 V/m; Power Drift = -0.19 dB

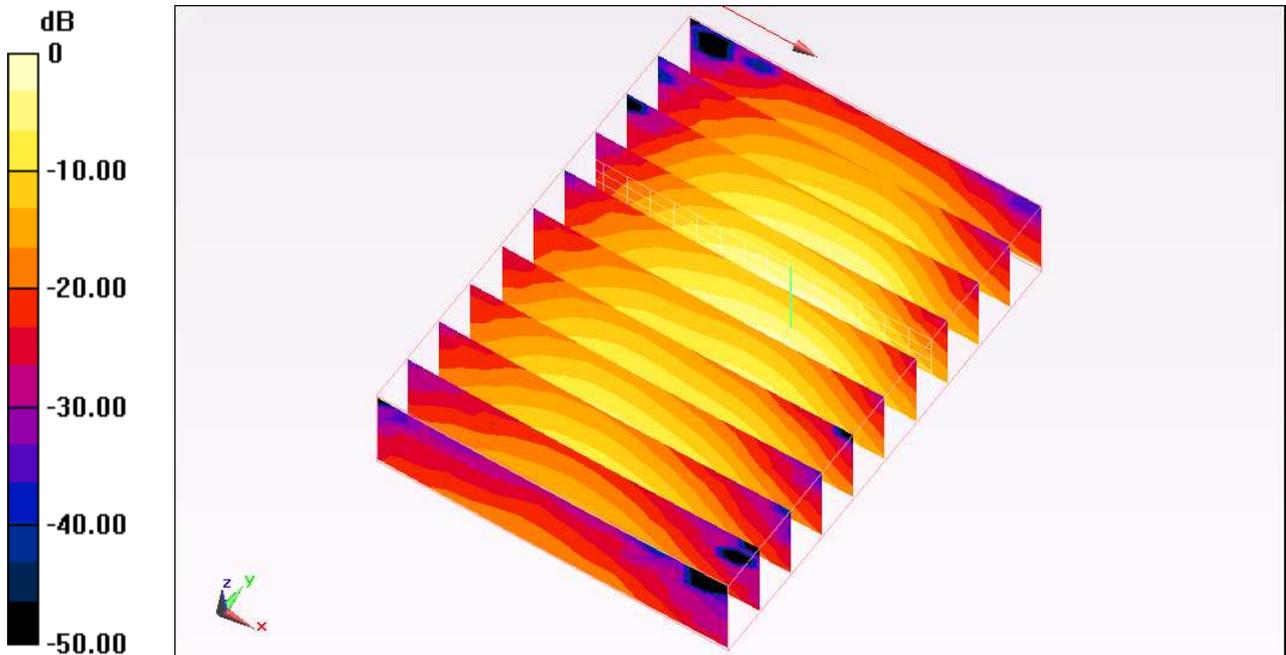
Peak SAR (extrapolated) = 0.972 W/kg

**SAR(1 g) = 0.584 mW/g; SAR(10 g) = 0.353 mW/g**

Total Absorbed Power = 0.0348595 W

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

Maximum value of SAR (measured) = 0.737 mW/g



0 dB = 0.740mW/g

Test Laboratory: UL CCS SAR Lab C

**WiFi\_2.4GHz\_Body**

Communication System: WLAN\_2.4GHz; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2462$  MHz;  $\sigma = 1.971$  mho/m;  $\epsilon_r = 51.524$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 - SN3773; ConvF(6.87, 6.87, 6.87); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
- Phantom: ELI v5.0 (B); Type: QDOVA001BB; Serial: 1118
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

**802.11b\_Ant 3/Rear Side\_H ch/Volume Scan (16x21x7):** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.007 V/m; Power Drift = 0.07 dB

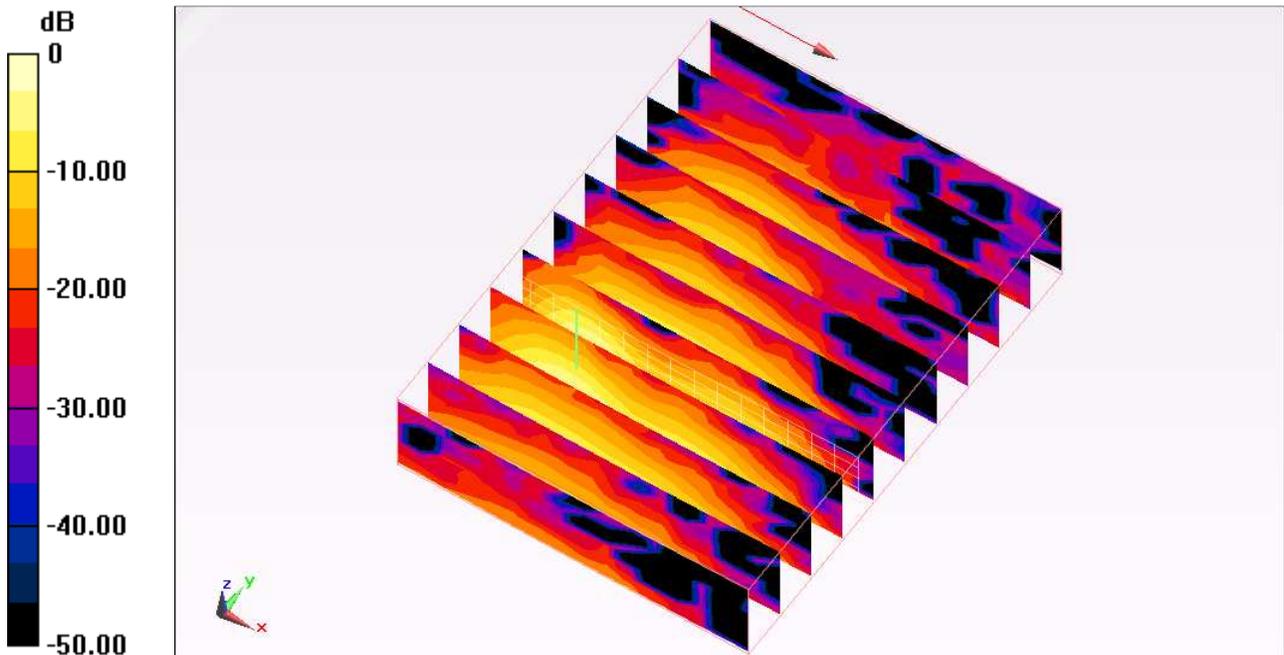
Peak SAR (extrapolated) = 0.543 W/kg

**SAR(1 g) = 0.252 mW/g; SAR(10 g) = 0.114 mW/g**

Total Absorbed Power = 0.0065434 W

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

Maximum value of SAR (measured) = 0.365 mW/g



0 dB = 0.360mW/g

Test Laboratory: UL CCS SAR Lab B

### CDMA BC1\_1xRTT

Communication System: CDMA2000; Frequency: 1880 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.53$  mho/m;  $\epsilon_r = 52.224$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
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 - SN3773; ConvF(7.37, 7.37, 7.37); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
- Phantom: ELI v5.0 (B); Type: QDOVA001BB; Serial: 1118
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

**Rear/1xRTT\_M-Ch\_Vol.Scan/Volume Scan (16x21x7):** Measurement grid: dx=8mm, dy=8mm, dz=5mm

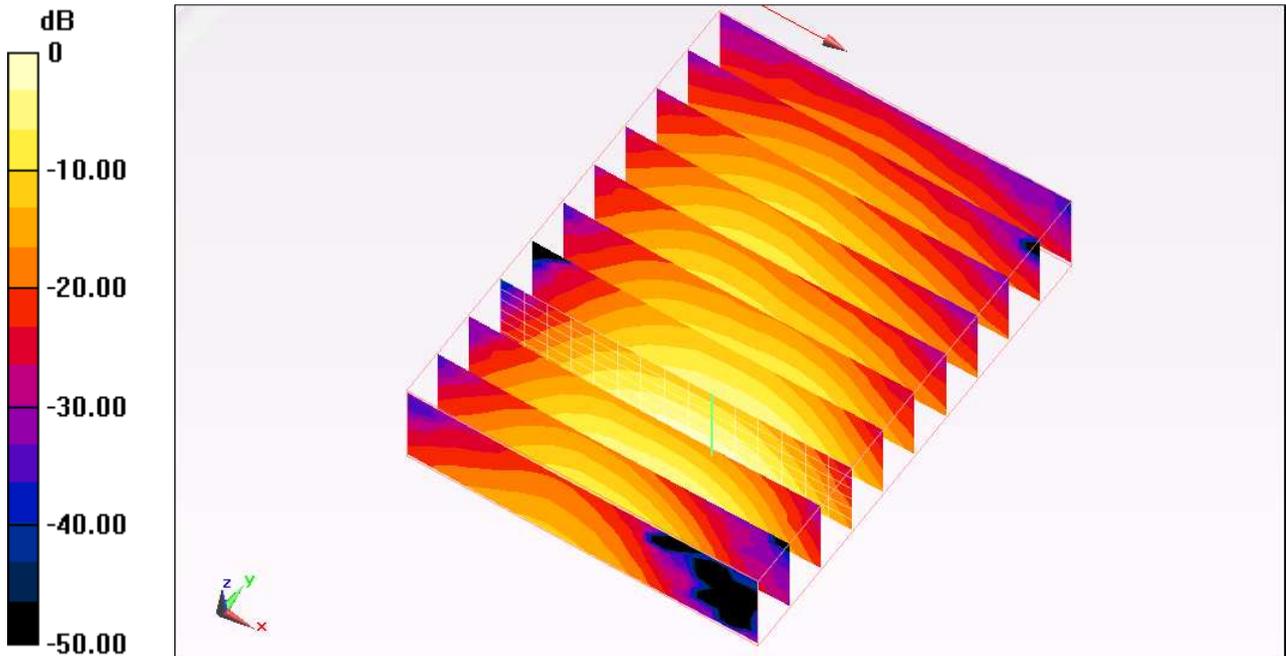
Reference Value = 32.286 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.838 W/kg

**SAR(1 g) = 1.16 mW/g; SAR(10 g) = 0.714 mW/g**

Total Absorbed Power = 0.0575684 W

Maximum value of SAR (measured) = 1.426 mW/g



0 dB = 1.430mW/g