

Test Laboratory: UL CCS SAR Lab A

**SystemPerformanceCheck-D835V2 SN 4d117**

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 1.01 \text{ mho/m}$ ;  $\epsilon_r = 54.396$ ;  $\rho = 1000 \text{ kg/m}^3$   
 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(8.78, 8.78, 8.78); Calibrated: 1/24/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1239; Calibrated: 11/17/2010
- Phantom: ELI v4.0(A); Type: QDOVA001BB; Serial: 1119
- Measurement SW: DASY52, Version 52.6 (2);SEMCAD X Version 14.4.5 (3634)

**Body/Pin=100 mW/Area Scan (61x61x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.243 mW/g

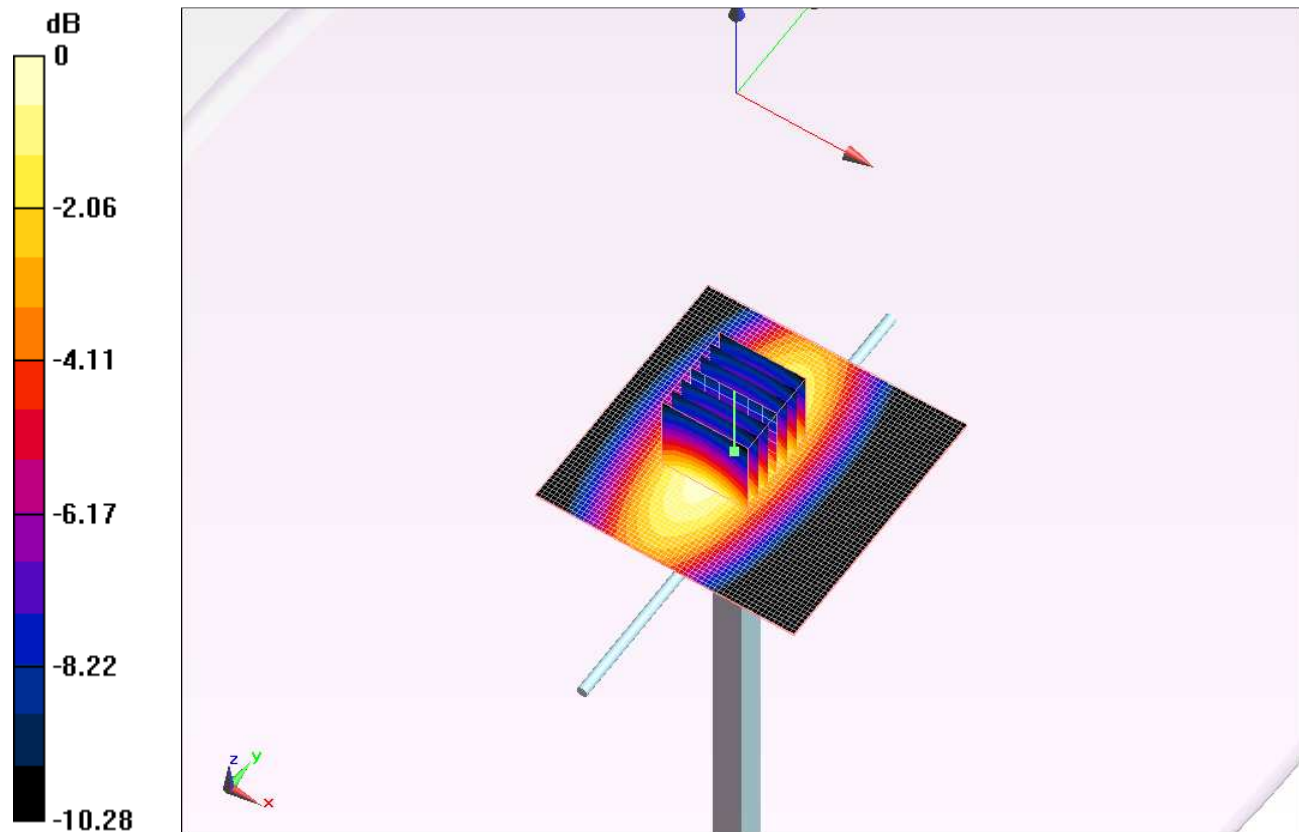
**Body/Pin=100 mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 36.427 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.534 W/kg

**SAR(1 g) = 1.02 mW/g; SAR(10 g) = 0.675 mW/g**

Maximum value of SAR (measured) = 1.243 mW/g



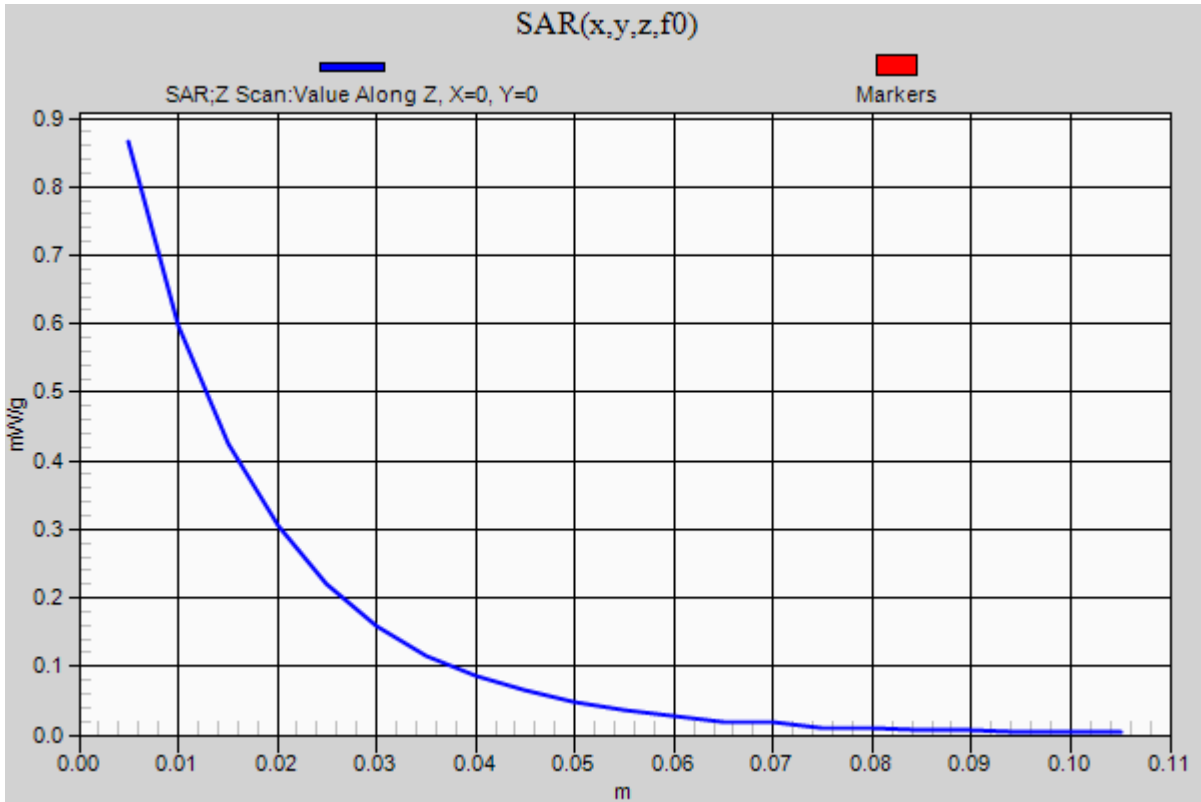
0 dB = 1.240mW/g

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### SystemPerformanceCheck-D835V2 SN 4d117

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

**Body/Pin=100 mW/Z Scan (1x1x21):** Measurement grid: dx=20mm, dy=20mm, dz=5mm  
Maximum value of SAR (measured) = 0.866 mW/g



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**SystemPerformanceCheck-D835V2 SN 4d117**

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

Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.987$  mho/m;  $\epsilon_r = 54.984$ ;  $\rho = 1000$  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 - SN3686; ConvF(8.78, 8.78, 8.78); Calibrated: 1/24/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1239; Calibrated: 11/17/2010
- Phantom: ELI v4.0(A); Type: QDOVA001BB; Serial: 1119
- Measurement SW: DASY52, Version 52.6 (2);SEMCAD X Version 14.4.5 (3634)

**Body/Pin=100 mW/Area Scan (61x61x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.229 mW/g

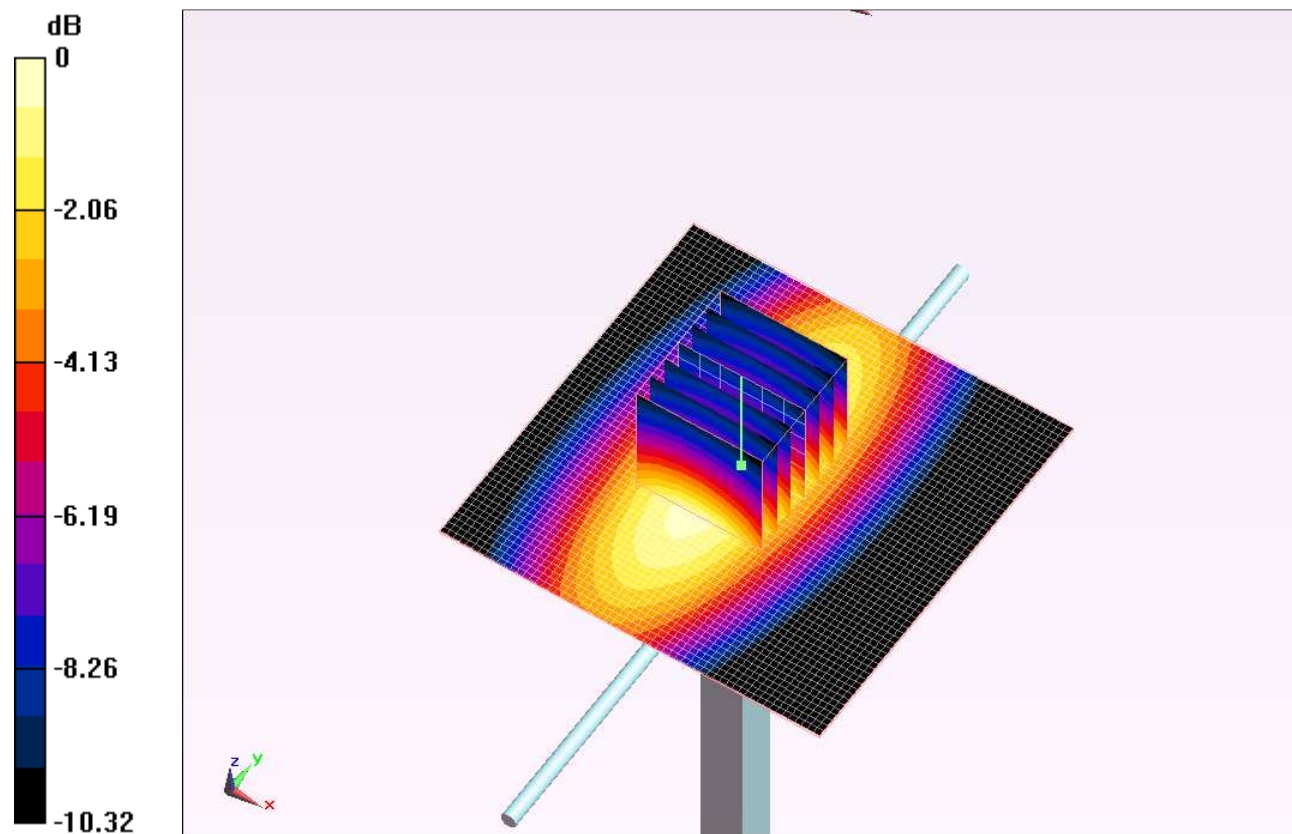
**Body/Pin=100 mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 36.819 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.525 W/kg

**SAR(1 g) = 1.02 mW/g; SAR(10 g) = 0.670 mW/g**

Maximum value of SAR (measured) = 1.237 mW/g



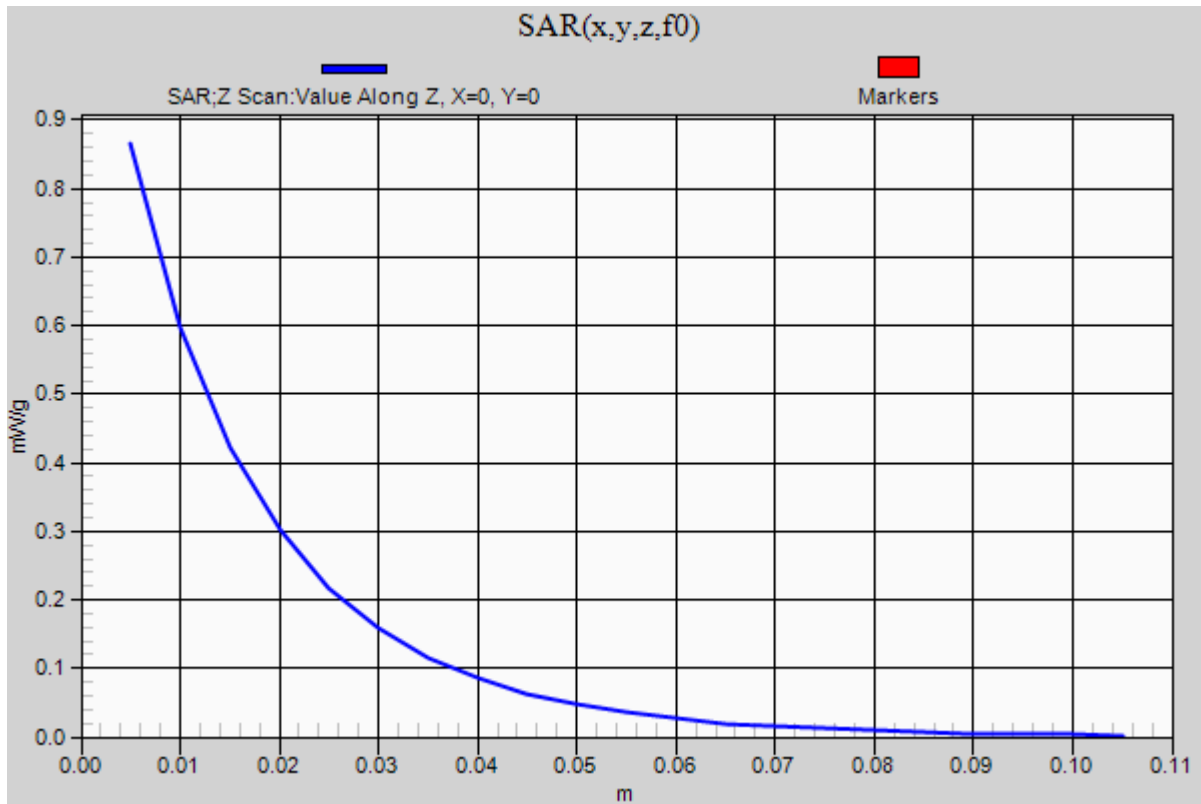
0 dB = 1.240mW/g

Test Laboratory: UL CCS SAR Lab A

### SystemPerformanceCheck-D835V2 SN 4d117

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

**Body/Pin=100 mW/Z Scan (1x1x21):** Measurement grid: dx=20mm, dy=20mm, dz=5mm  
Maximum value of SAR (measured) = 0.865 mW/g



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**System Check\_D1900V2\_SN 5d140**

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.556$  mho/m;  $\epsilon_r = 52.405$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section

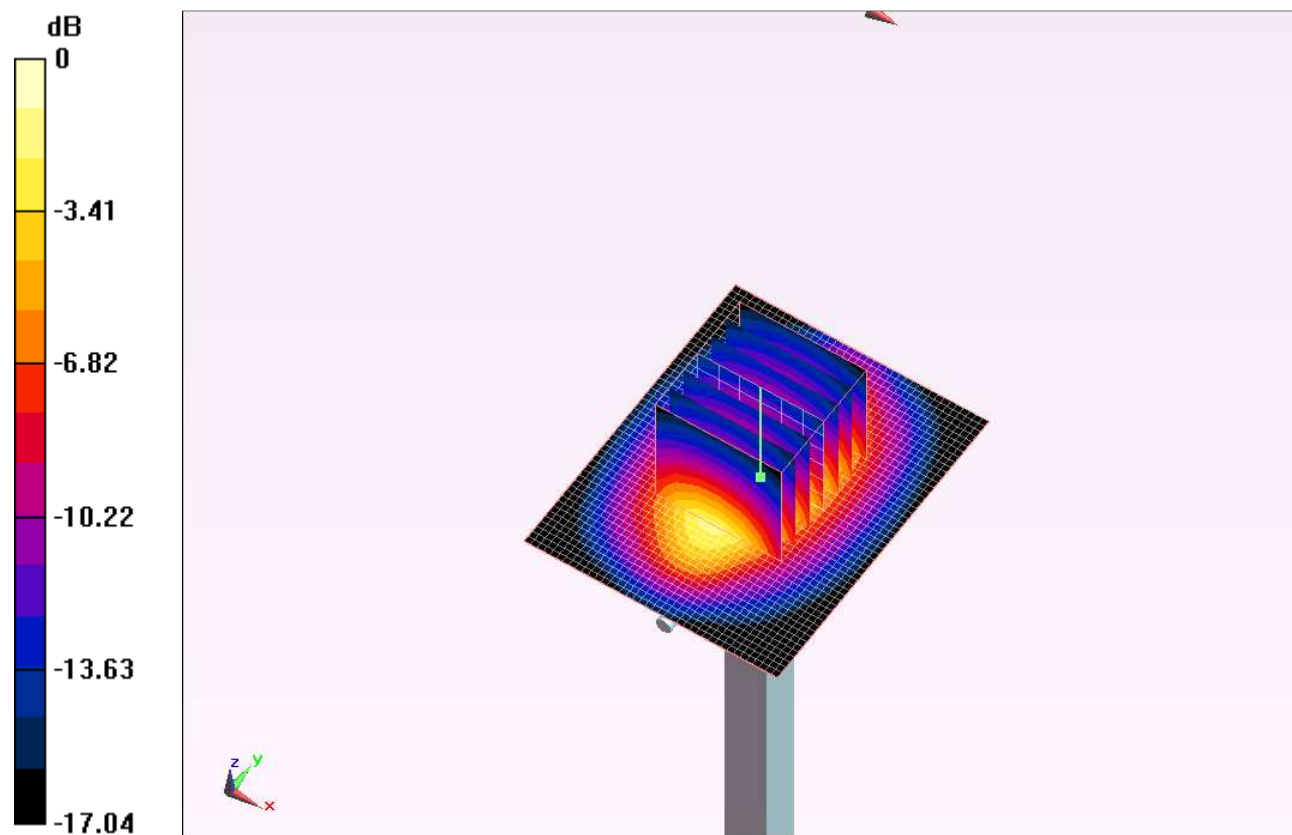
Room Ambient Temperature: 24.0 deg. C; Liquid Temperature: 23.0 deg. C

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 - 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: ELI v4.0(B); Type: QDOVA001BB; Serial: 1099
- Measurement SW: DASY52, Version 52.6 (2);SEMCAD X Version 14.4.5 (3634)

**D1900V2/Pin=100 mW 2/Area Scan (41x51x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (interpolated) = 6.251 mW/g

**D1900V2/Pin=100 mW 2/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
 Reference Value = 62.805 V/m; Power Drift = -0.0096 dB  
 Peak SAR (extrapolated) = 8.089 W/kg  
**SAR(1 g) = 4.44 mW/g; SAR(10 g) = 2.31 mW/g**  
 Maximum value of SAR (measured) = 6.004 mW/g



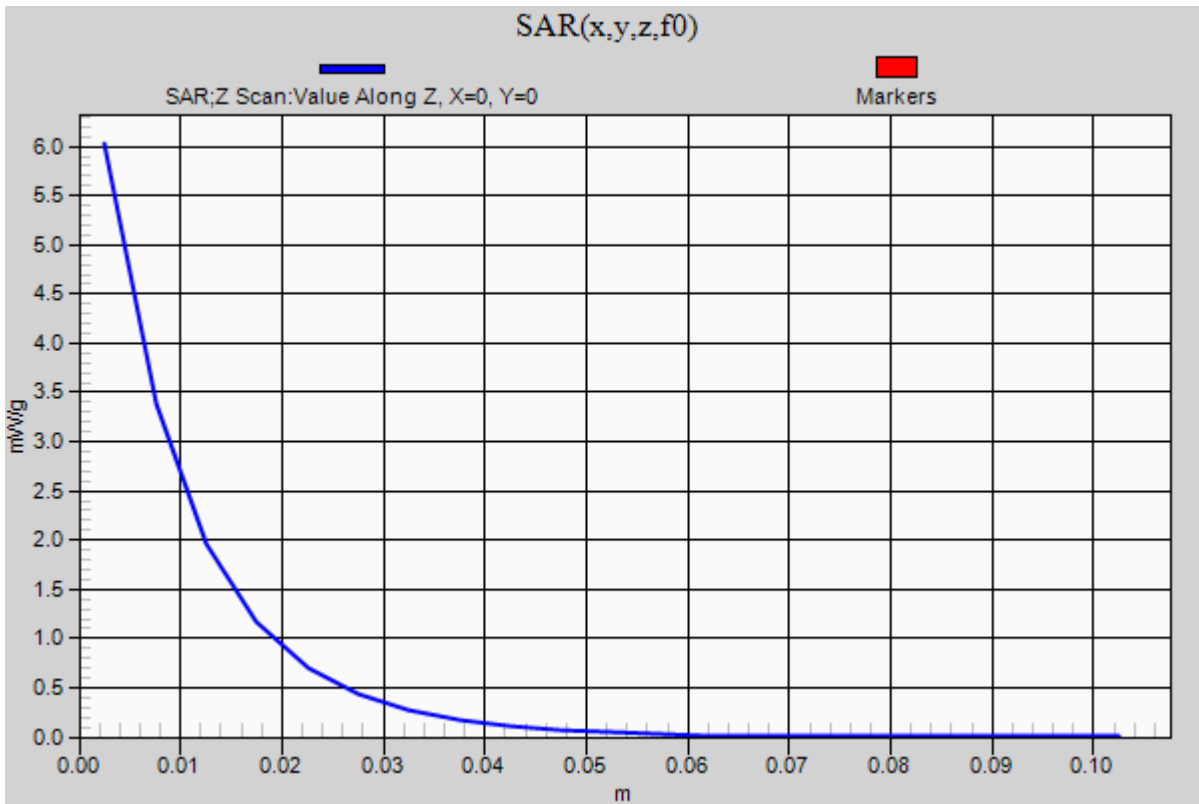
0 dB = 6.000mW/g

Test Laboratory: UL CCS SAR Lab A

### System Check\_D1900V2\_SN 5d140

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

**D1900V2/Pin=100 mW 2/Z Scan (1x1x21):** Measurement grid: dx=20mm, dy=20mm, dz=5mm  
Maximum value of SAR (measured) = 6.027 mW/g



Test Laboratory: UL CCS SAR Lab A

**System Check\_D1900V2\_SN 5d140**

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.548$  mho/m;  $\epsilon_r = 52.187$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section

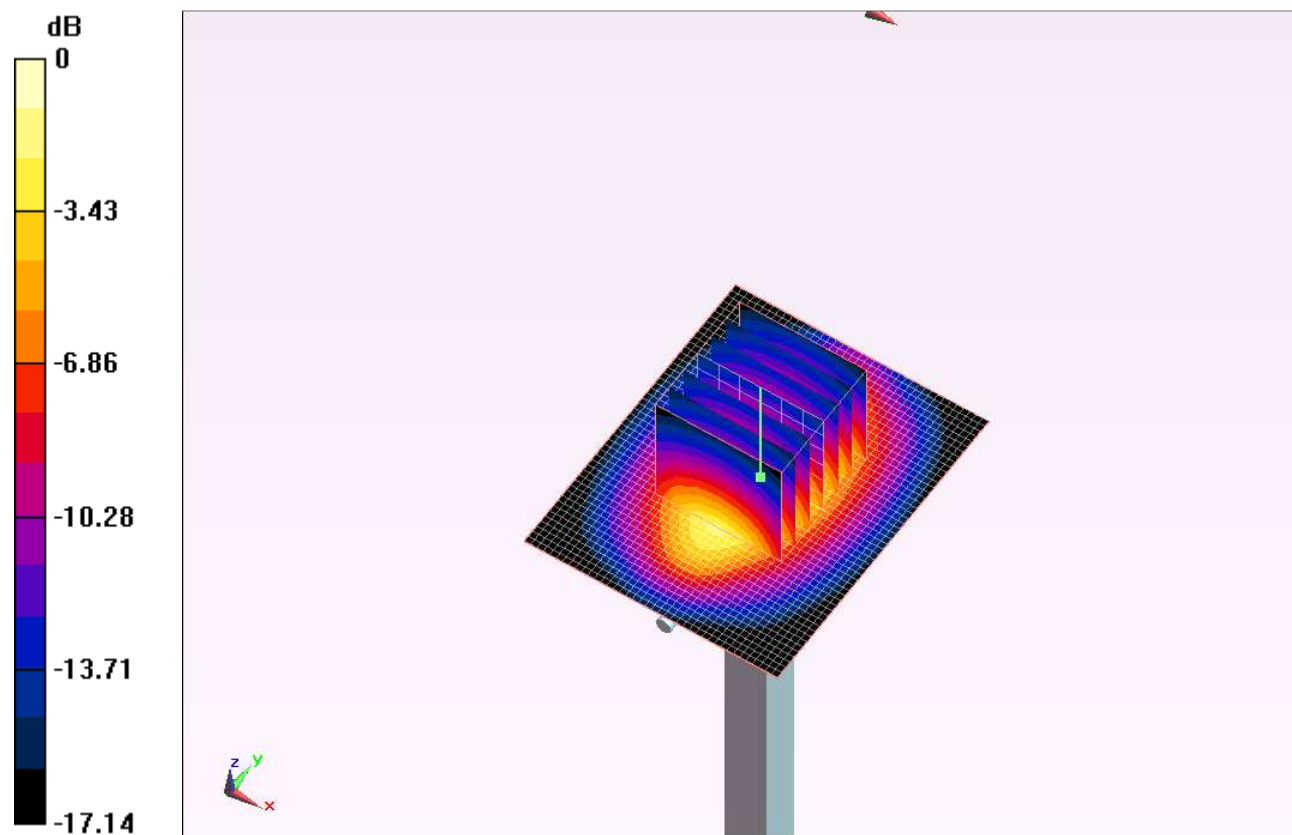
Room Ambient Temperature: 24.0 deg. C; Liquid Temperature: 23.0 deg. C

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 - 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: ELI v4.0(B); Type: QDOVA001BB; Serial: 1099
- Measurement SW: DASY52, Version 52.6 (2);SEMCAD X Version 14.4.5 (3634)

**D1900V2/Pin=100 mW 2/Area Scan (41x51x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (interpolated) = 6.348 mW/g

**D1900V2/Pin=100 mW 2/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
 Reference Value = 63.325 V/m; Power Drift = -0.02 dB  
 Peak SAR (extrapolated) = 8.219 W/kg  
**SAR(1 g) = 4.5 mW/g; SAR(10 g) = 2.34 mW/g**  
 Maximum value of SAR (measured) = 6.087 mW/g



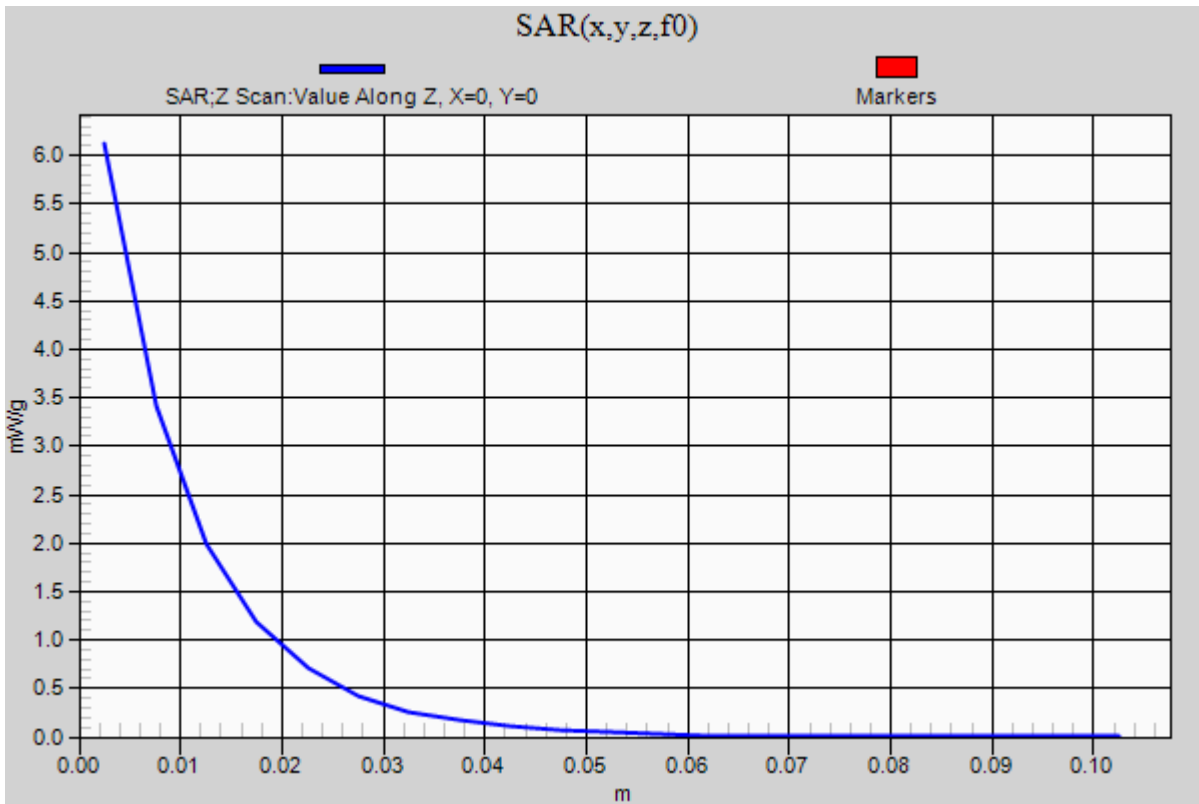
0 dB = 6.090mW/g

Test Laboratory: UL CCS SAR Lab A

### System Check\_D1900V2\_SN 5d140

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

**D1900V2/Pin=100 mW 2/Z Scan (1x1x21):** Measurement grid: dx=20mm, dy=20mm, dz=5mm  
Maximum value of SAR (measured) = 6.120 mW/g





Test Laboratory: UL CCS SAR Lab C

## SystemPerformanceCheck-D1900V2 SN 5d140

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.535$  mho/m;  $\epsilon_r = 52.226$ ;  $\rho = 1000$  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(6.76, 6.76, 6.76); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1239; Calibrated: 10/18/2011
- Phantom: ELI v4.0 (A); Type: QDOVA001BB; Serial: 1117
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

**Body/Pin=100 mW/Area Scan (61x61x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 5.835 mW/g

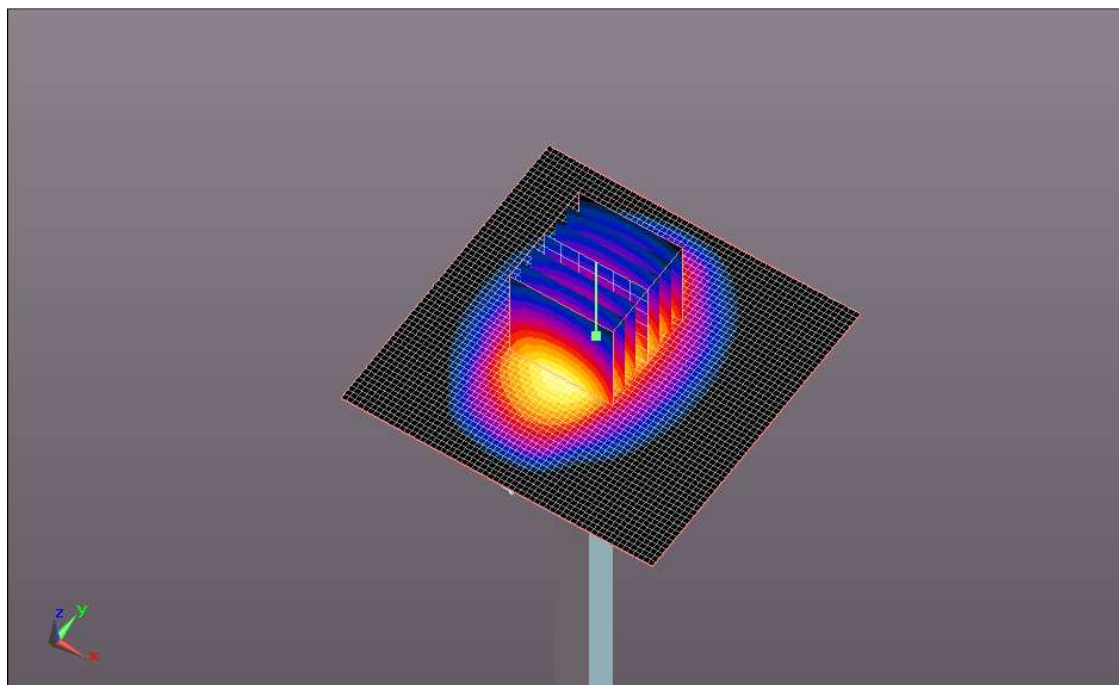
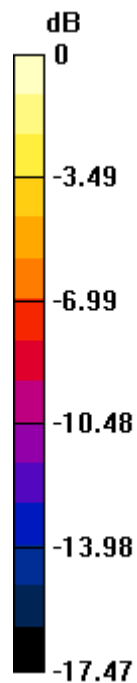
**Body/Pin=100 mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 61.822 V/m; Power Drift = -0.003 dB

Peak SAR (extrapolated) = 7.854 W/kg

**SAR(1 g) = 4.29 mW/g; SAR(10 g) = 2.24 mW/g**

Maximum value of SAR (measured) = 5.759 mW/g



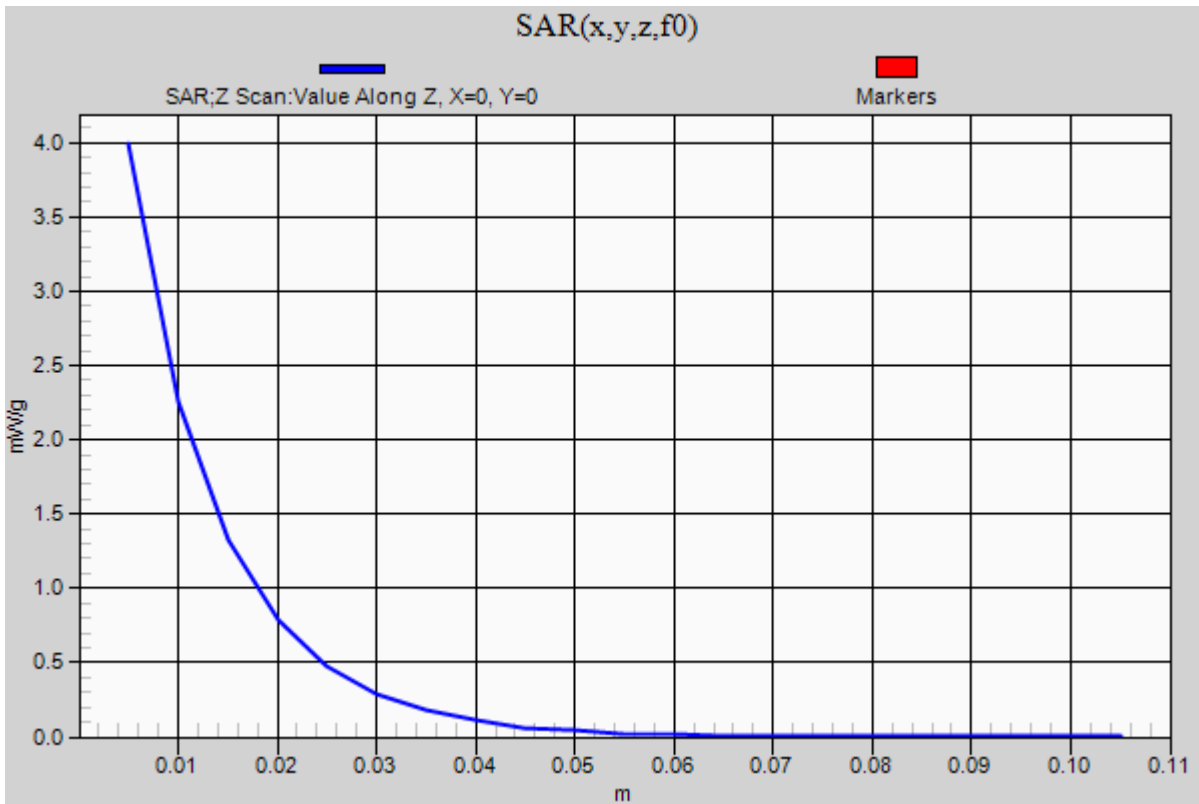
0 dB = 5.760mW/g

Test Laboratory: UL CCS SAR Lab C

### SystemPerformanceCheck-D1900V2 SN 5d140

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

**Body/Pin=100 mW/Z Scan (1x1x21):** Measurement grid: dx=20mm, dy=20mm, dz=5mm  
Maximum value of SAR (measured) = 3.993 mW/g



Test Laboratory: UL CCS SAR Lab C

## 20111213 SystemPerformanceCheck-D835V2 SN 4d117

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.976 \text{ mho/m}$ ;  $\epsilon_r = 54.653$ ;  $\rho = 1000 \text{ kg/m}^3$   
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)

**Body/Pin=100 mW/Area Scan (61x61x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.203 mW/g

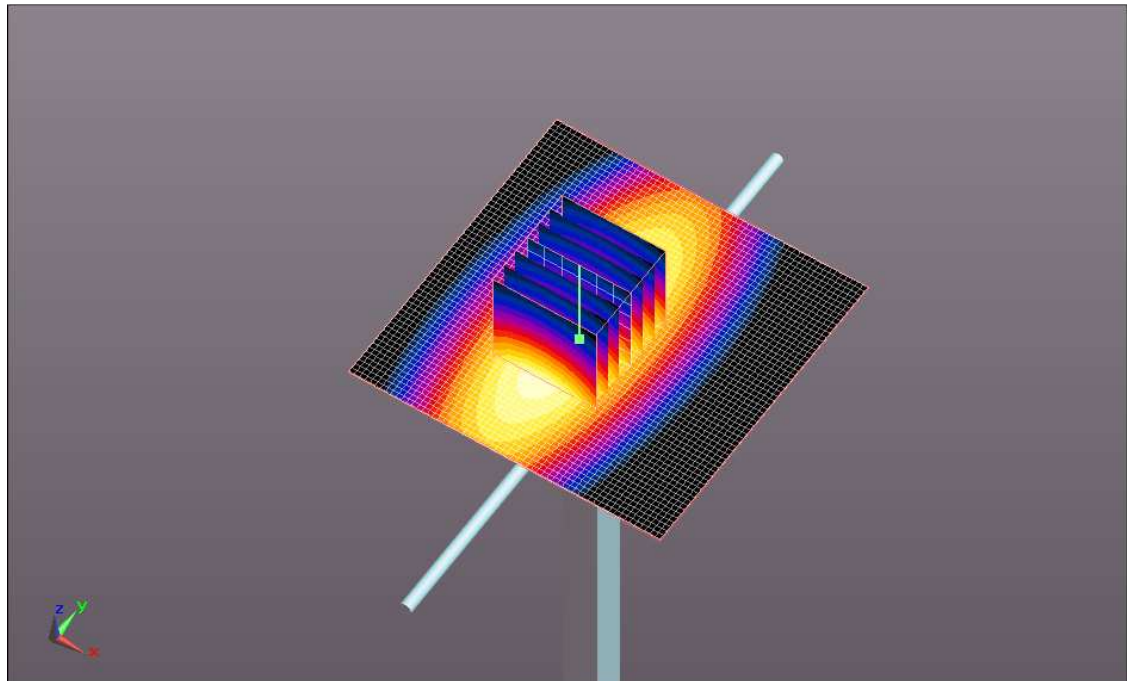
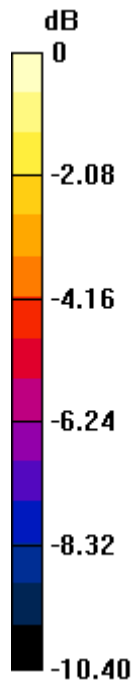
**Body/Pin=100 mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 36.430 V/m; Power Drift = -0.0037 dB

Peak SAR (extrapolated) = 1.489 W/kg

**SAR(1 g) = 0.992 mW/g; SAR(10 g) = 0.653 mW/g**

Maximum value of SAR (measured) = 1.204 mW/g



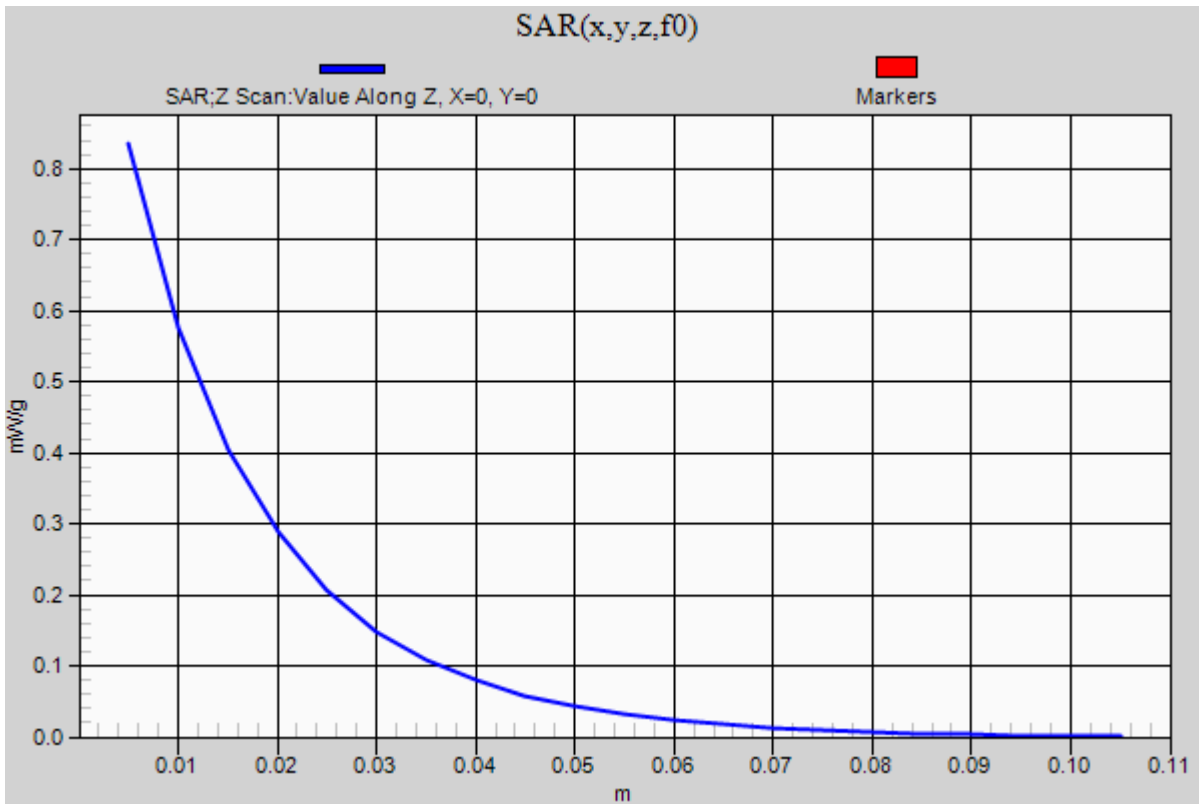
0 dB = 1.200mW/g

Test Laboratory: UL CCS SAR Lab C

### 20111213 SystemPerformanceCheck-D835V2 SN 4d117

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

**Body/Pin=100 mW/Z Scan (1x1x21):** Measurement grid: dx=20mm, dy=20mm, dz=5mm  
Maximum value of SAR (measured) = 0.835 mW/g



Test Laboratory: UL CCS SAR Lab C

**20111213\_SystemPerformanceCheck-D1900V2 SN 5d140**

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.54$  mho/m;  $\epsilon_r = 51.816$ ;  $\rho = 1000$  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(6.76, 6.76, 6.76); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1239; Calibrated: 10/18/2011
- Phantom: ELI v4.0 (A); Type: QDOVA001BB; Serial: 1117
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

**Body/Pin=100 mW/Area Scan (61x61x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 5.850 mW/g

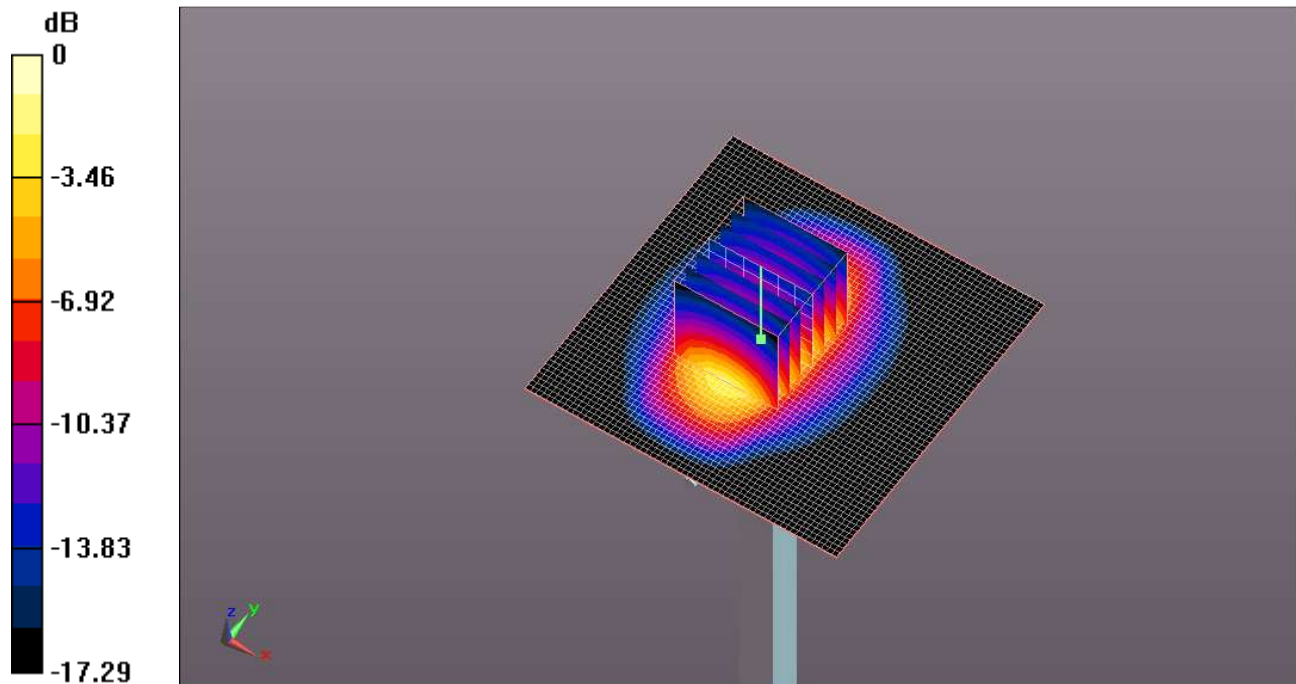
**Body/Pin=100 mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 62.236 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 7.964 W/kg

**SAR(1 g) = 4.34 mW/g; SAR(10 g) = 2.26 mW/g**

Maximum value of SAR (measured) = 5.880 mW/g



0 dB = 5.880mW/g

Test Laboratory: UL CCS SAR Lab C

### 20111213\_SystemPerformanceCheck-D1900V2 SN 5d140

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

**Body/Pin=100 mW/Z Scan (1x1x21):** Measurement grid: dx=20mm, dy=20mm, dz=5mm  
Maximum value of SAR (measured) = 4.000 mW/g

