

## Dipole Verification Plots

**DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d104**

Communication System: CW; Frequency: 835 MHz  
 Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.891$  S/m;  $\epsilon_r = 40.824$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat section

### DASY Configuration

Probe: EX3DV4 - SN3745; ConvF(8.78, 8.78, 8.78); Calibrated: 2015/4/24;  
 Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$   
 Electronics: DAE4 Sn554; Calibrated: 2015/4/24  
 Phantom: SAM v5.0 TP:1799; Type: QD000P40CD; Serial: TP:1799  
 Measurement SW: DASY52, Version 52.8 (8)

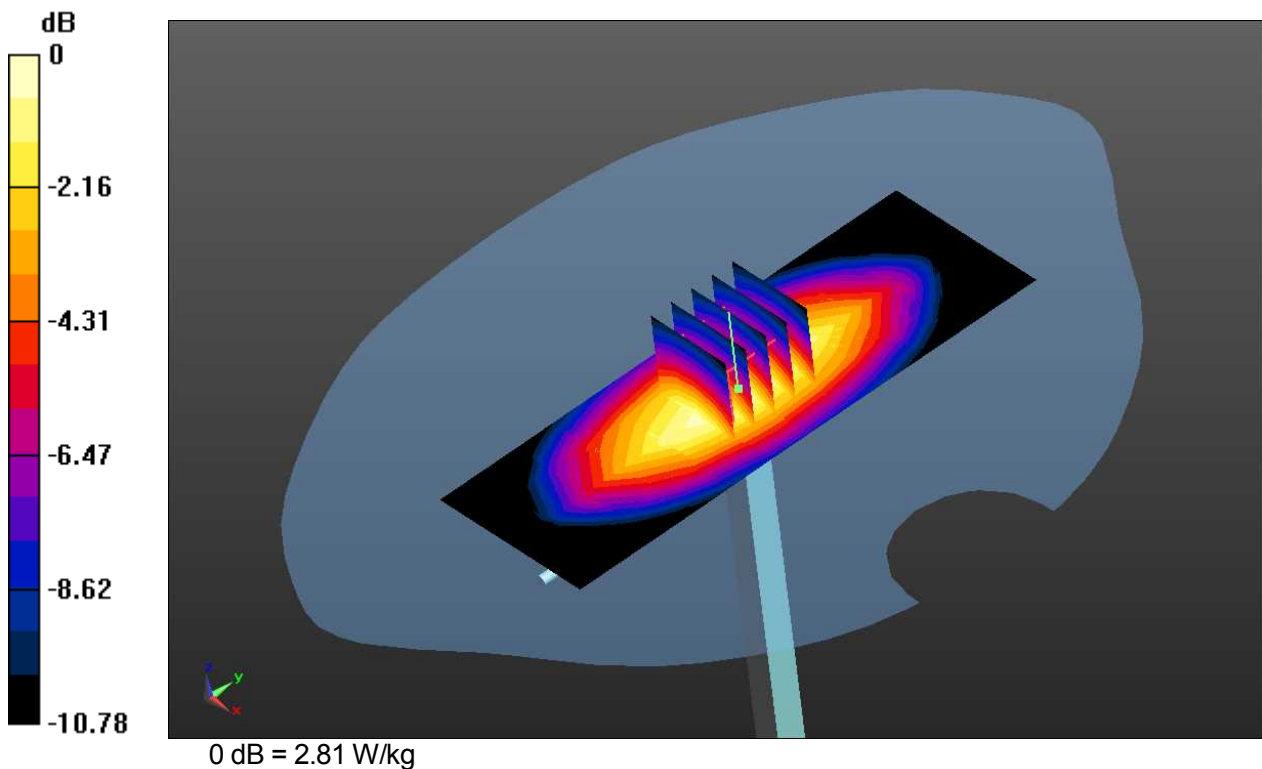
Test date: 2015-12-2; Ambient Temp: 21.7; Tissue Temp: 21.5

### 835 MHz System Verification -Head-

**Area Scan (5x13x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
 Maximum value of SAR (measured) = 2.79 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm  
 Reference Value = 57.29 V/m; Power Drift = 0.03 dB  
 Peak SAR (extrapolated) = 3.31 W/kg

**SAR(1 g) = 2.21 W/kg; SAR(10 g) = 1.45 W/kg**  
 Maximum value of SAR (measured) = 2.81 W/kg



### DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d104

Communication System: CW; Frequency: 835 MHz  
 Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.891$  S/m;  $\epsilon_r = 40.824$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat section

### DASY Configuration

Probe: EX3DV4 - SN3745; ConvF(8.78, 8.78, 8.78); Calibrated: 2015/4/24;  
 Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$   
 Electronics: DAE4 Sn554; Calibrated: 2015/4/24  
 Phantom: SAM v5.0 TP:1799; Type: QD000P40CD; Serial: TP:1799  
 Measurement SW: DASY52, Version 52.8 (8)

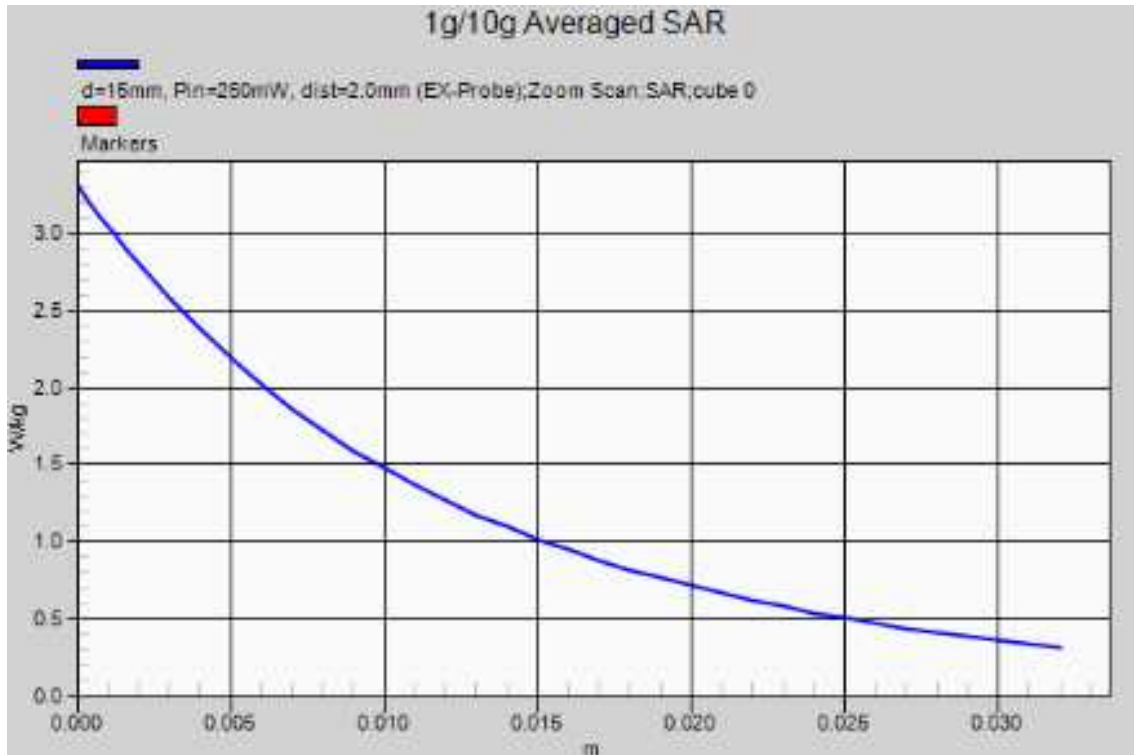
Test date: 2015-12-2; Ambient Temp: 21.7; Tissue Temp: 21.5

### 835 MHz System Verification -Head-

**Area Scan (5x13x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
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 Maximum value of SAR (measured) = 2.81 W/kg



### DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d104

Communication System: CW; Frequency: 835 MHz  
 Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.997$  S/m;  $\epsilon_r = 54.226$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat section

### DASY Configuration

Probe: EX3DV4 - SN3745; ConvF(8.81, 8.81, 8.81); Calibrated: 2015/4/24;  
 Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$   
 Electronics: DAE4 Sn554; Calibrated: 2015/4/24  
 Phantom: ELI v5.0 (20deg probe tilt) TP:1230; Type: QDOVA001BB; Serial: TP:1230  
 Measurement SW: DASY52, Version 52.8 (8)

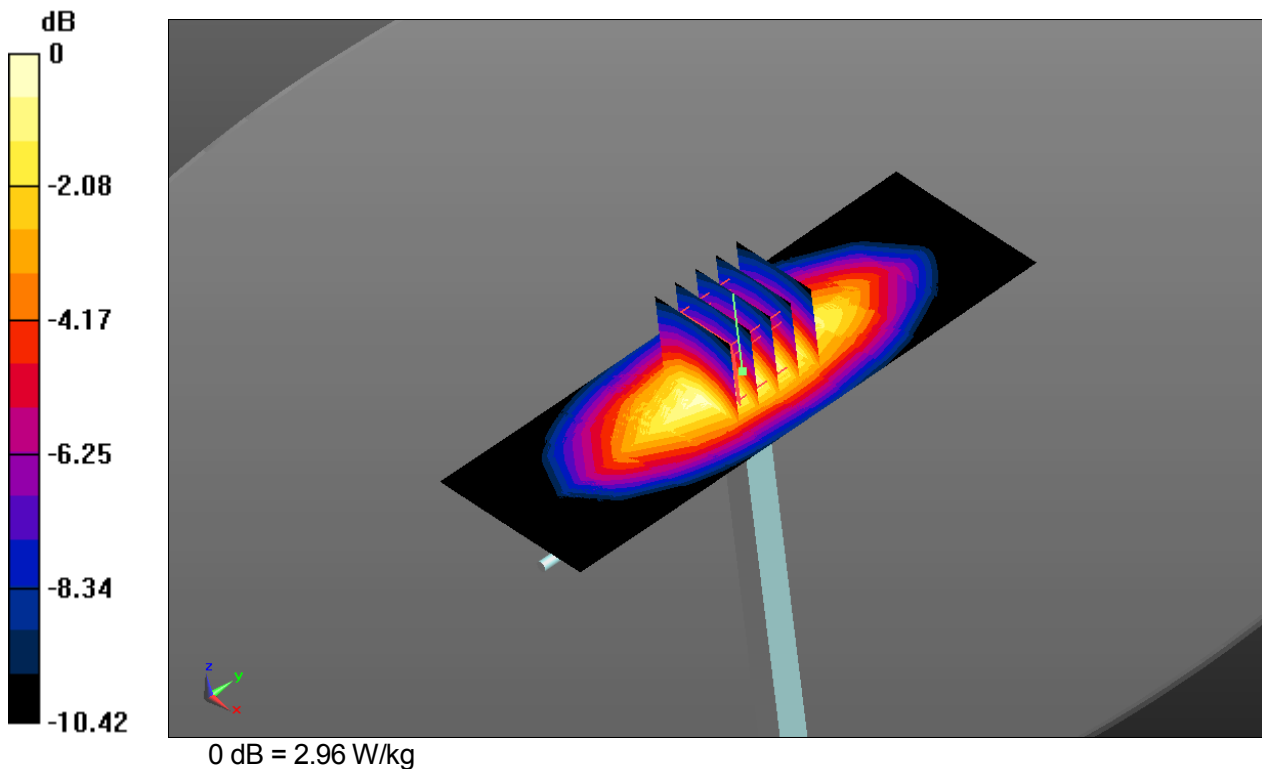
Test date: 2015-12-2; Ambient Temp: 21.6; Tissue Temp: 21.5

### 835 MHz System Verification -Body-

**Area Scan (5x13x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
 Maximum value of SAR (measured) = 2.97 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm  
 Reference Value = 55.90 V/m; Power Drift = 0.04 dB  
 Peak SAR (extrapolated) = 3.46 W/kg

**SAR(1 g) = 2.35 W/kg; SAR(10 g) = 1.55 W/kg**  
 Maximum value of SAR (measured) = 2.96 W/kg



### DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d104

Communication System: CW; Frequency: 835 MHz  
 Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.997$  S/m;  $\epsilon_r = 54.226$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat section

### DASY Configuration

Probe: EX3DV4 - SN3745; ConvF(8.81, 8.81, 8.81); Calibrated: 2015/4/24;  
 Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$   
 Electronics: DAE4 Sn554; Calibrated: 2015/4/24  
 Phantom: ELI v5.0 (20deg probe tilt) TP:1230; Type: QDOVA001BB; Serial: TP:1230  
 Measurement SW: DASY52, Version 52.8 (8)

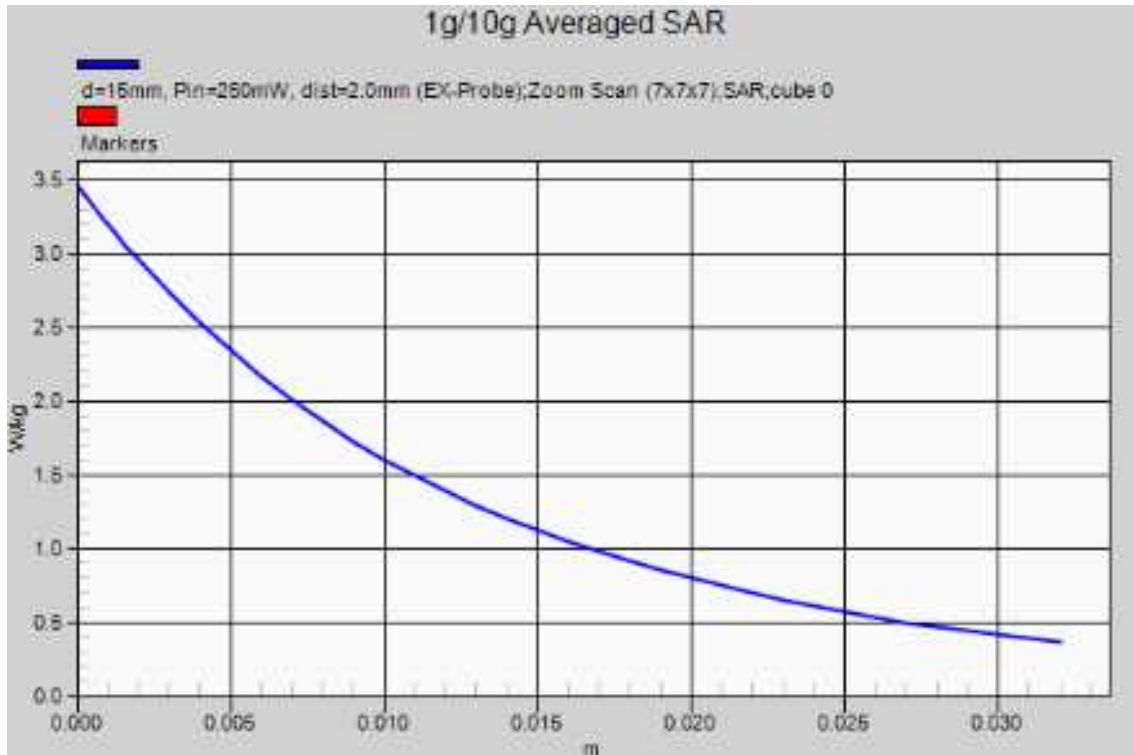
Test date: 2015-12-2; Ambient Temp: 21.6; Tissue Temp: 21.5

### 835 MHz System Verification -Body-

**Area Scan (5x13x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
 Maximum value of SAR (measured) = 2.97 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm  
 Reference Value = 55.90 V/m; Power Drift = 0.04 dB  
 Peak SAR (extrapolated) = 3.46 W/kg

**SAR(1 g) = 2.35 W/kg; SAR(10 g) = 1.55 W/kg**  
 Maximum value of SAR (measured) = 2.96 W/kg



**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d129**

Communication System: CW; Frequency: 1900 MHz  
 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.419$  S/m;  $\epsilon_r = 40.036$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat section

**DASY Configuration**

Probe: EX3DV4 - SN3745; ConvF(7.29, 7.29, 7.29); Calibrated: 2015/4/24;  
 Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$   
 Electronics: DAE4 Sn554; Calibrated: 2015/4/24  
 Phantom: SAM v5.0 TP:1799; Type: QD000P40CD; Serial: TP:1799  
 MEASUREMENT SW: DASY52, VERSION 52.8 (8);

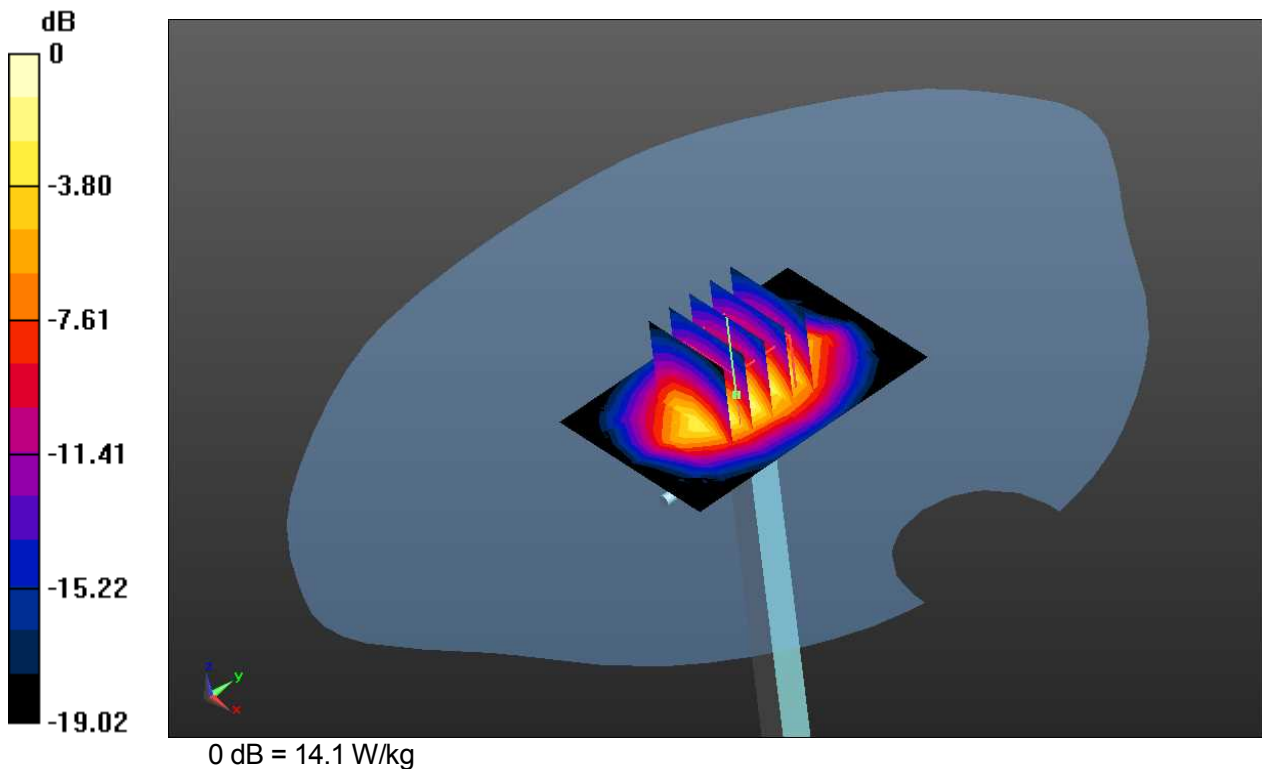
Test date: 2015-12-3; Ambient Temp: 22.3; Tissue Temp: 22.7

**1900 MHz System Verification -Head-**

**Area Scan (5x7x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
 Maximum value of SAR (measured) = 14.2 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm  
 Reference Value = 101.6 V/m; Power Drift = 0.02 dB  
 Peak SAR (extrapolated) = 18.5 W/kg

**SAR(1 g) = 9.78 W/kg; SAR(10 g) = 5.01 W/kg**  
 Maximum value of SAR (measured) = 14.1 W/kg



**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d129**

Communication System: CW; Frequency: 1900 MHz  
 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.419$  S/m;  $\epsilon_r = 40.036$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat section

**DASY Configuration**

Probe: EX3DV4 - SN3745; ConvF(7.29, 7.29, 7.29); Calibrated: 2015/4/24;  
 Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$   
 Electronics: DAE4 Sn554; Calibrated: 2015/4/24  
 Phantom: SAM v5.0 TP:1799; Type: QD000P40CD; Serial: TP:1799  
 MEASUREMENT SW: DASY52, VERSION 52.8 (8);

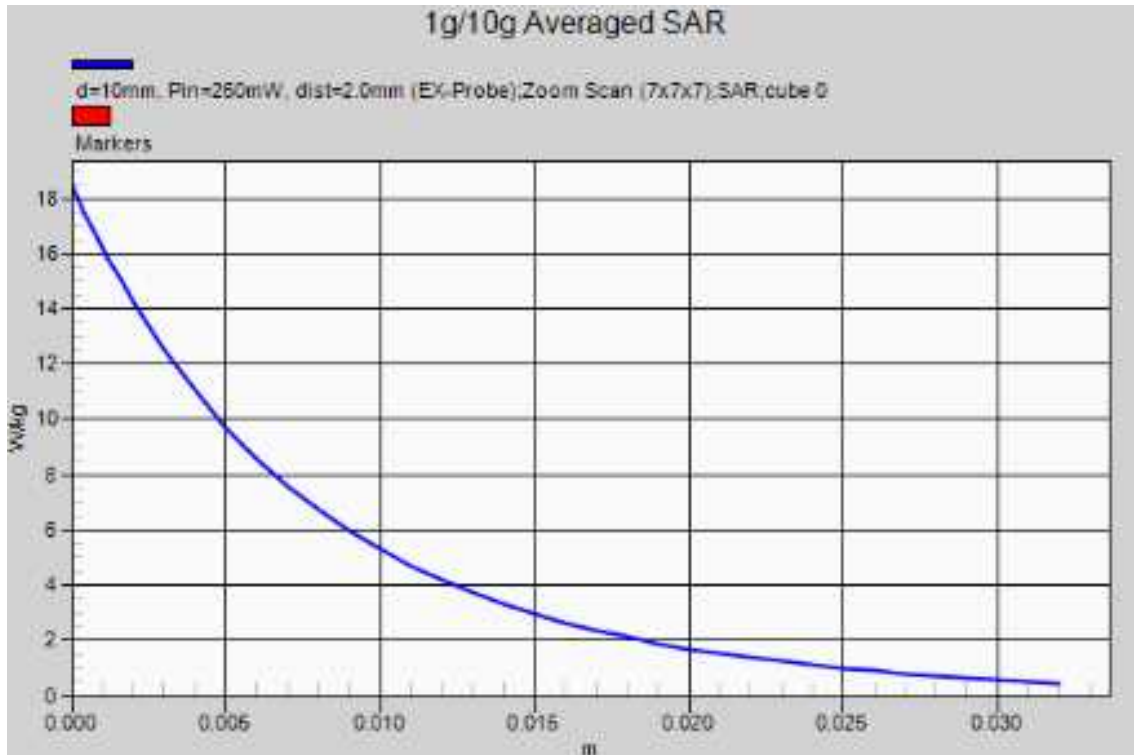
Test date: 2015-12-3; Ambient Temp: 22.3; Tissue Temp: 22.7

**1900 MHz System Verification -Head-**

**Area Scan (5x7x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
 Maximum value of SAR (measured) = 14.2 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm  
 Reference Value = 101.6 V/m; Power Drift = 0.02 dB  
 Peak SAR (extrapolated) = 18.5 W/kg

**SAR(1 g) = 9.78 W/kg; SAR(10 g) = 5.01 W/kg**  
 Maximum value of SAR (measured) = 14.1 W/kg



**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d129**

Communication System: CW; Frequency: 1900 MHz  
 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.556$  S/m;  $\epsilon_r = 52.424$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat section

**DASY Configuration**

Probe: EX3DV4 - SN3745; ConvF(6.99, 6.99, 6.99); Calibrated: 2015/4/24;  
 Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$   
 Electronics: DAE4 Sn554; Calibrated: 2015/4/24  
 Phantom: ELI v5.0 (20deg probe tilt) TP;1230; Type: QDOVA001BB; Serial: TP:1230  
 MEASUREMENT SW: DASY52, VERSION 52.8 (8);

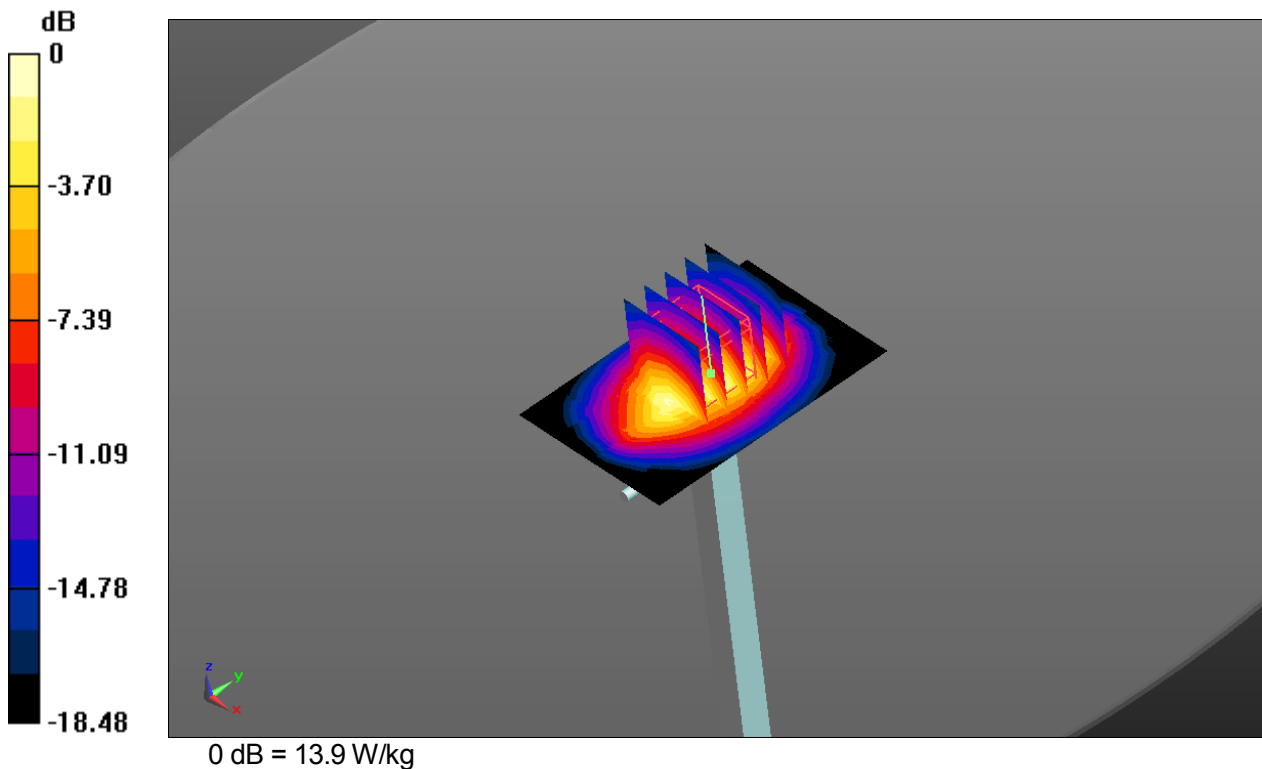
Test date: 2015-12-3; Ambient Temp: 21.8; Tissue Temp: 21.9

**1900 MHz System Verification -Body-**

**Area Scan (5x7x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
 Maximum value of SAR (measured) = 14.1 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm  
 Reference Value = 96.61 V/m; Power Drift = 0.05 dB  
 Peak SAR (extrapolated) = 17.8 W/kg

**SAR(1 g) = 9.9 W/kg; SAR(10 g) = 5.17 W/kg**  
 Maximum value of SAR (measured) = 13.9 W/kg



**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d129**

Communication System: CW; Frequency: 1900 MHz  
 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.556$  S/m;  $\epsilon_r = 52.424$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat section

**DASY Configuration**

Probe: EX3DV4 - SN3745; ConvF(6.99, 6.99, 6.99); Calibrated: 2015/4/24;  
 Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$   
 Electronics: DAE4 Sn554; Calibrated: 2015/4/24  
 Phantom: ELI v5.0 (20deg probe tilt) TP;1230; Type: QDOVA001BB; Serial: TP:1230  
 MEASUREMENT SW: DASY52, VERSION 52.8 (8);

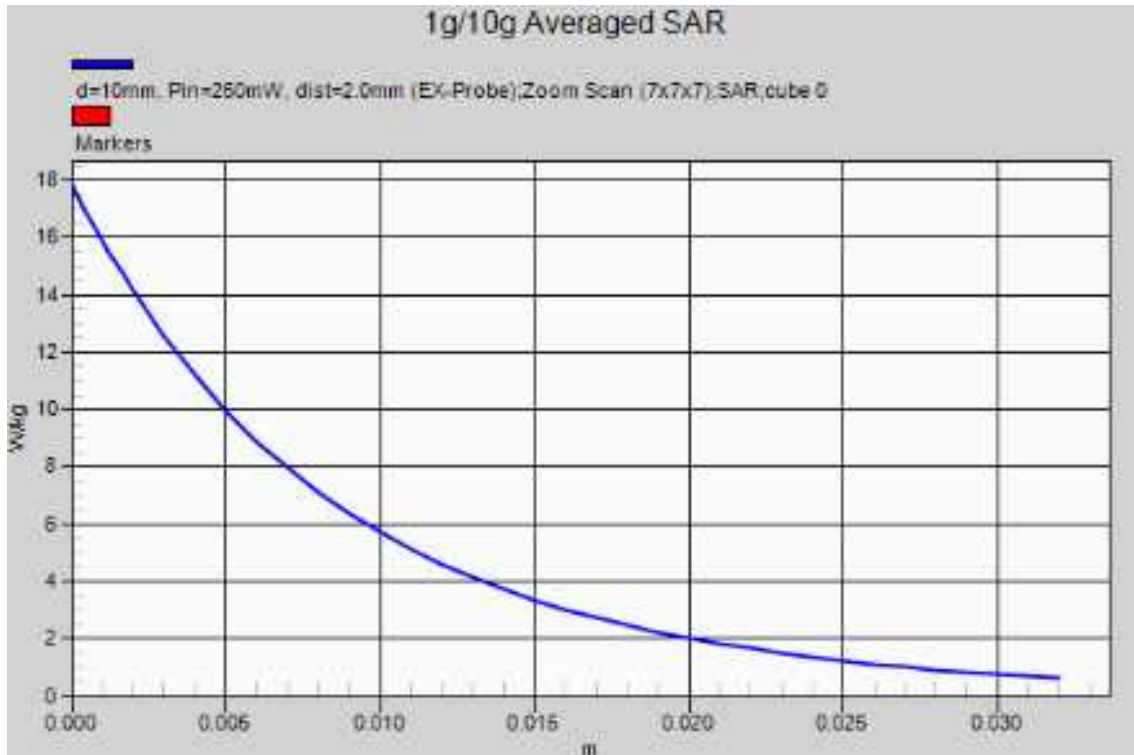
Test date: 2015-12-3; Ambient Temp: 21.8; Tissue Temp: 21.9

**1900 MHz System Verification -Body-**

**Area Scan (5x7x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
 Maximum value of SAR (measured) = 14.1 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm  
 Reference Value = 96.61 V/m; Power Drift = 0.05 dB  
 Peak SAR (extrapolated) = 17.8 W/kg

**SAR(1 g) = 9.9 W/kg; SAR(10 g) = 5.17 W/kg**  
 Maximum value of SAR (measured) = 13.9 W/kg





### DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 765

Communication System: CW; Frequency: 2450 MHz  
 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.845$  S/m;  $\epsilon_r = 38.22$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat section

### DASY Configuration

Probe: EX3DV4 - SN3745; ConvF(6.64, 6.64, 6.64); Calibrated: 2015/4/24;  
 Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$   
 Electronics: DAE4 Sn554; Calibrated: 2015/4/24  
 Phantom: SAM v5.0 TP:1799; Type: QD000P40CD; Serial: TP:1799  
 MEASUREMENT SW: DASY52, VERSION 52.8 (8);

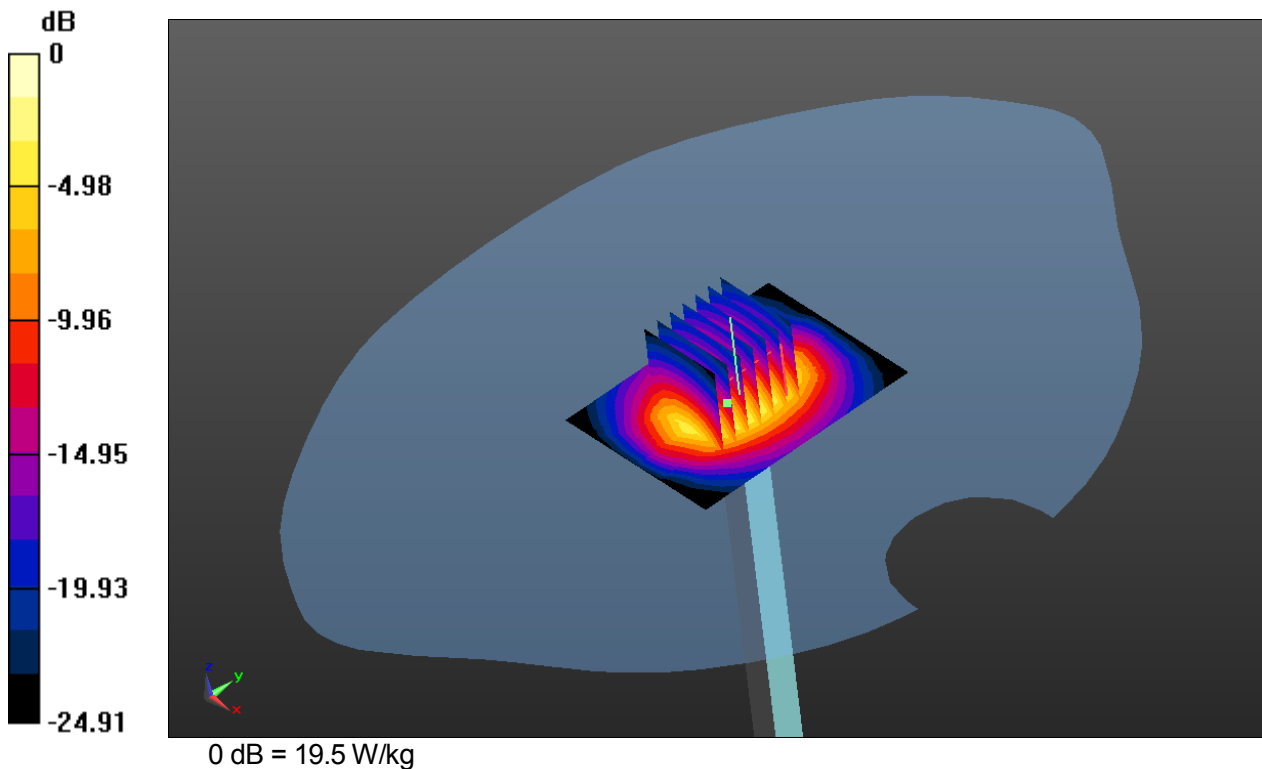
Test date: 2015-12-1; Ambient Temp: 22.0; Tissue Temp: 22.8

### 2450 MHz System Verification -Head-

**Area Scan (7x9x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm  
 Maximum value of SAR (measured) = 19.8 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm  
 Reference Value = 106.2 V/m; Power Drift = -0.14 dB  
 Peak SAR (extrapolated) = 27.6 W/kg

**SAR(1 g) = 12.5 W/kg; SAR(10 g) = 5.59 W/kg**  
 Maximum value of SAR (measured) = 19.5 W/kg



### DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 765

Communication System: CW; Frequency: 2450 MHz  
 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.845$  S/m;  $\epsilon_r = 38.22$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat section

### DASY Configuration

Probe: EX3DV4 - SN3745; ConvF(6.64, 6.64, 6.64); Calibrated: 2015/4/24;  
 Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$   
 Electronics: DAE4 Sn554; Calibrated: 2015/4/24  
 Phantom: SAM v5.0 TP:1799; Type: QD000P40CD; Serial: TP:1799  
 MEASUREMENT SW: DASY52, VERSION 52.8 (8);

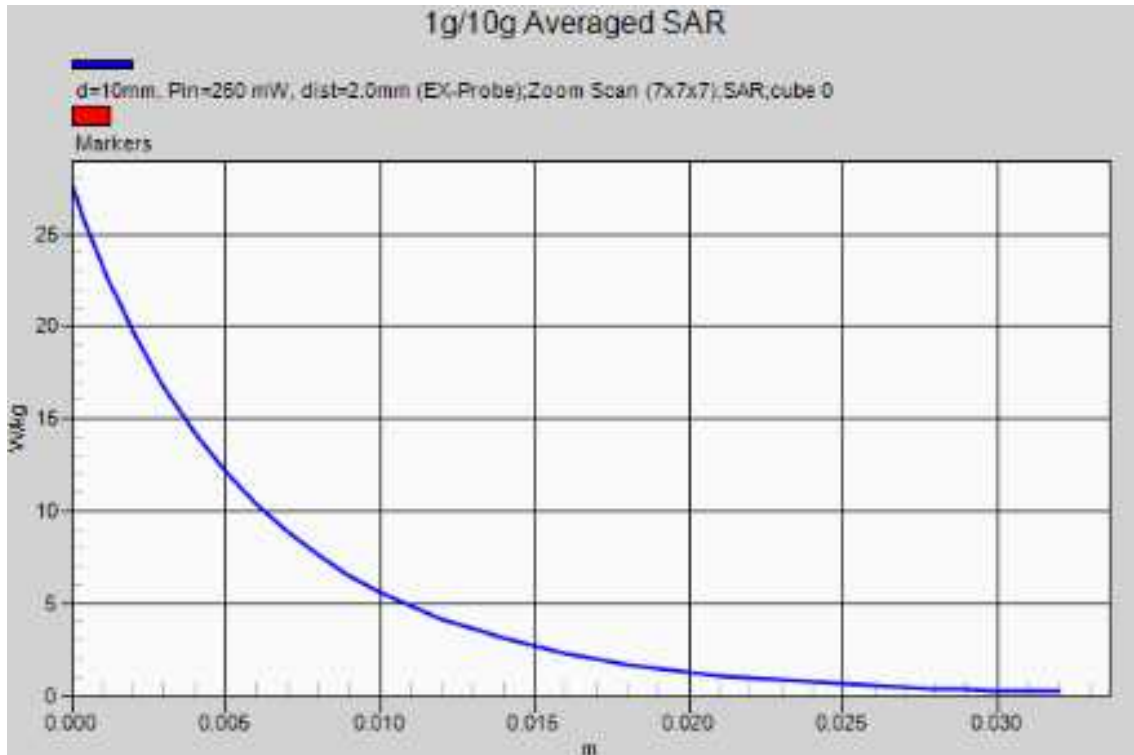
Test date: 2015-12-1; Ambient Temp: 22.0; Tissue Temp: 22.8

### 2450 MHz System Verification -Head-

**Area Scan (7x9x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm  
 Maximum value of SAR (measured) = 19.8 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm  
 Reference Value = 106.2 V/m; Power Drift = -0.14 dB  
 Peak SAR (extrapolated) = 27.6 W/kg

**SAR(1 g) = 12.5 W/kg; SAR(10 g) = 5.59 W/kg**  
 Maximum value of SAR (measured) = 19.5 W/kg



**DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 765**

Communication System: CW; Frequency: 2450 MHz  
 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.97$  S/m;  $\epsilon_r = 51.164$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat section

**DASY Configuration**

Probe: EX3DV4 - SN3745; ConvF(6.73, 6.73, 6.73); Calibrated: 2015/4/24;  
 Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$   
 Electronics: DAE4 Sn554; Calibrated: 2015/4/24  
 Phantom: ELI v5.0 (20deg probe tilt) TP;1230; Type: QDOVA001BB; Serial: TP:1230  
 MEASUREMENT SW: DASY52, VERSION 52.8 (8);

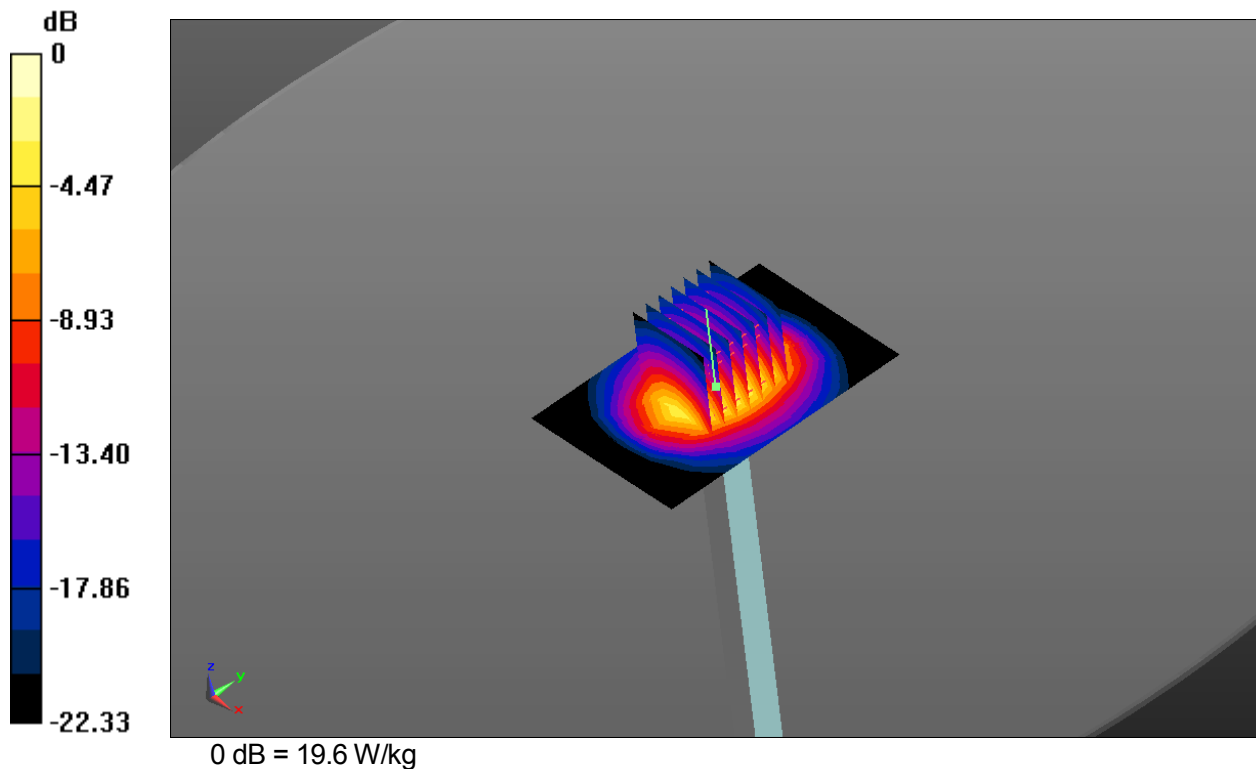
Test date: 2015-12-2; Ambient Temp: 21.8; Tissue Temp: 21.6

**2450 MHz System Verification -Body-**

**Area Scan (7x10x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm  
 Maximum value of SAR (measured) = 18.9 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm  
 Reference Value = 101.3 V/m; Power Drift = 0.12 dB  
 Peak SAR (extrapolated) = 26.7 W/kg

**SAR(1 g) = 12.8 W/kg; SAR(10 g) = 5.86 W/kg**  
 Maximum value of SAR (measured) = 19.6 W/kg



**DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 765**

Communication System: CW; Frequency: 2450 MHz  
 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.97$  S/m;  $\epsilon_r = 51.164$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat section

**DASY Configuration**

Probe: EX3DV4 - SN3745; ConvF(6.73, 6.73, 6.73); Calibrated: 2015/4/24;  
 Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$   
 Electronics: DAE4 Sn554; Calibrated: 2015/4/24  
 Phantom: ELI v5.0 (20deg probe tilt) TP;1230; Type: QDOVA001BB; Serial: TP:1230  
 MEASUREMENT SW: DASY52, VERSION 52.8 (8);

Test date: 2015-12-2; Ambient Temp: 21.8; Tissue Temp: 21.6

**2450 MHz System Verification -Body-**

**Area Scan (7x10x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm  
 Maximum value of SAR (measured) = 18.9 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm  
 Reference Value = 101.3 V/m; Power Drift = 0.12 dB  
 Peak SAR (extrapolated) = 26.7 W/kg

**SAR(1 g) = 12.8 W/kg; SAR(10 g) = 5.86 W/kg**  
 Maximum value of SAR (measured) = 19.6 W/kg

