

## **SAR Plots**

- Verification Plots
- SAR Test Plots

## DT&C Co., Ltd.

**DUT: Dipole 1800 MHz; Type: D1800V2; Serial: D1800V2 - SN:2d047**

Communication System: UID 0, CW (0); Frequency: 1800 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1800$  MHz;  $\sigma = 1.399$  S/m;  $\epsilon_r = 40.956$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3866; ConvF(8.1, 8.1, 8.1); Calibrated: 5/28/2019; Electronics: DAE4 Sn1394  
Sensor-Surface: 2mm (Mechanical Surface Detection)  
Phantom: SAM-twin middle\_2013\_09\_24; Type: QD000P40CD; Serial: 1782  
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-10-11; Ambient Temp: 21.6; Tissue Temp: 21.7

### **1800 MHz System Verification (100 mW)**

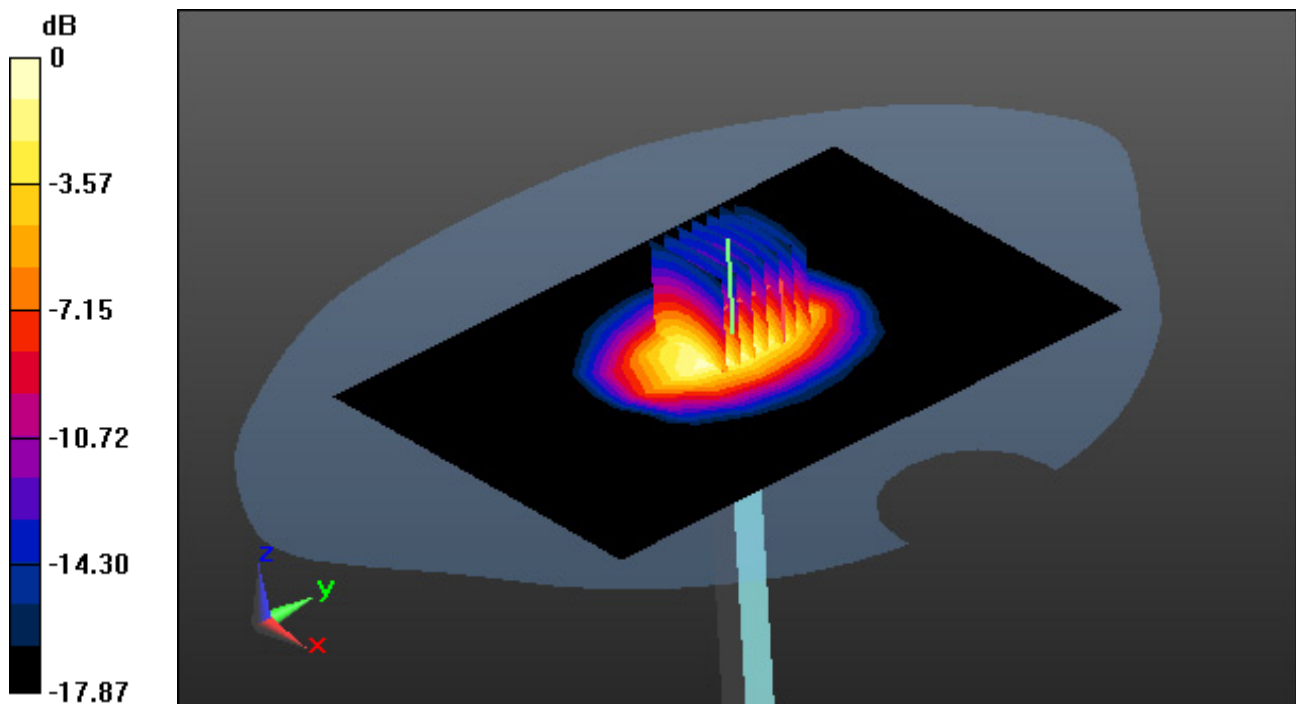
**Area Scan (9x13x1):** Measurement grid: dx=15mm, dy=15mm

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

Power Drift = -0.09 dB

Peak SAR (extrapolated) = 7.24 W/kg

SAR(1 g) = 3.83 W/kg; SAR(10 g) = 2.01 W/kg



0 dB = 4.25 W/kg

## DT&C Co., Ltd.

**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d029**

Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.435$  S/m;  $\epsilon_r = 41.182$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3866; ConvF(7.85, 7.85, 7.85); Calibrated: 5/28/2019; Electronics: DAE4 Sn1394  
Sensor-Surface: 2mm (Mechanical Surface Detection)  
Phantom: SAM-twin middle\_2013\_09\_24; Type: QD000P40CD; Serial: 1782  
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-10-10; Ambient Temp: 22.2; Tissue Temp: 22.0

### **1900 MHz System Verification (100 mW)**

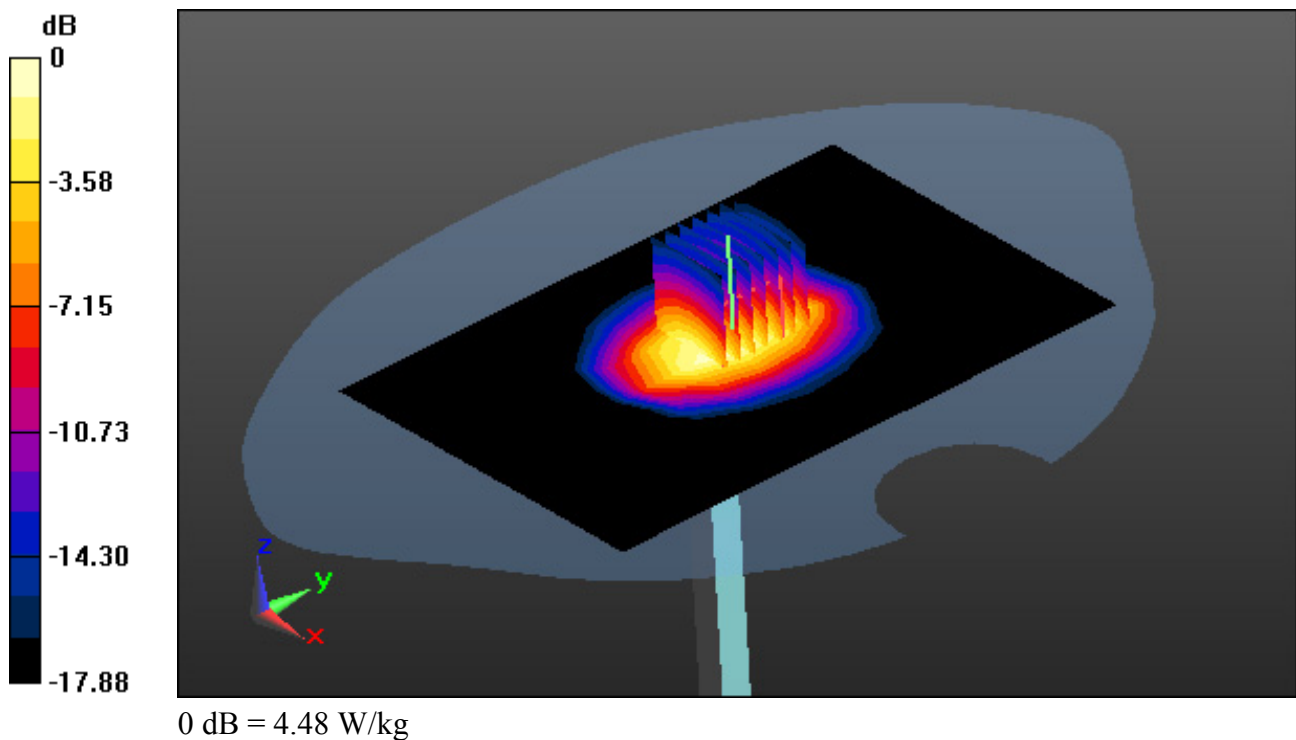
**Area Scan (9x13x1):** Measurement grid: dx=15mm, dy=15mm

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

Power Drift = -0.14 dB

Peak SAR (extrapolated) = 7.63 W/kg

**SAR(1 g) = 4.01 W/kg; SAR(10 g) = 2.10 W/kg**



## DT&C Co., Ltd.

**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d029**

Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.441$  S/m;  $\epsilon_r = 41.027$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3866; ConvF(7.85, 7.85, 7.85); Calibrated: 5/28/2019; Electronics: DAE4 Sn1394  
Sensor-Surface: 2mm (Mechanical Surface Detection)  
Phantom: SAM-twin middle\_2013\_09\_24; Type: QD000P40CD; Serial: 1782  
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-10-14; Ambient Temp: 20.3; Tissue Temp: 20.3

### **1900 MHz System Verification (100 mW)**

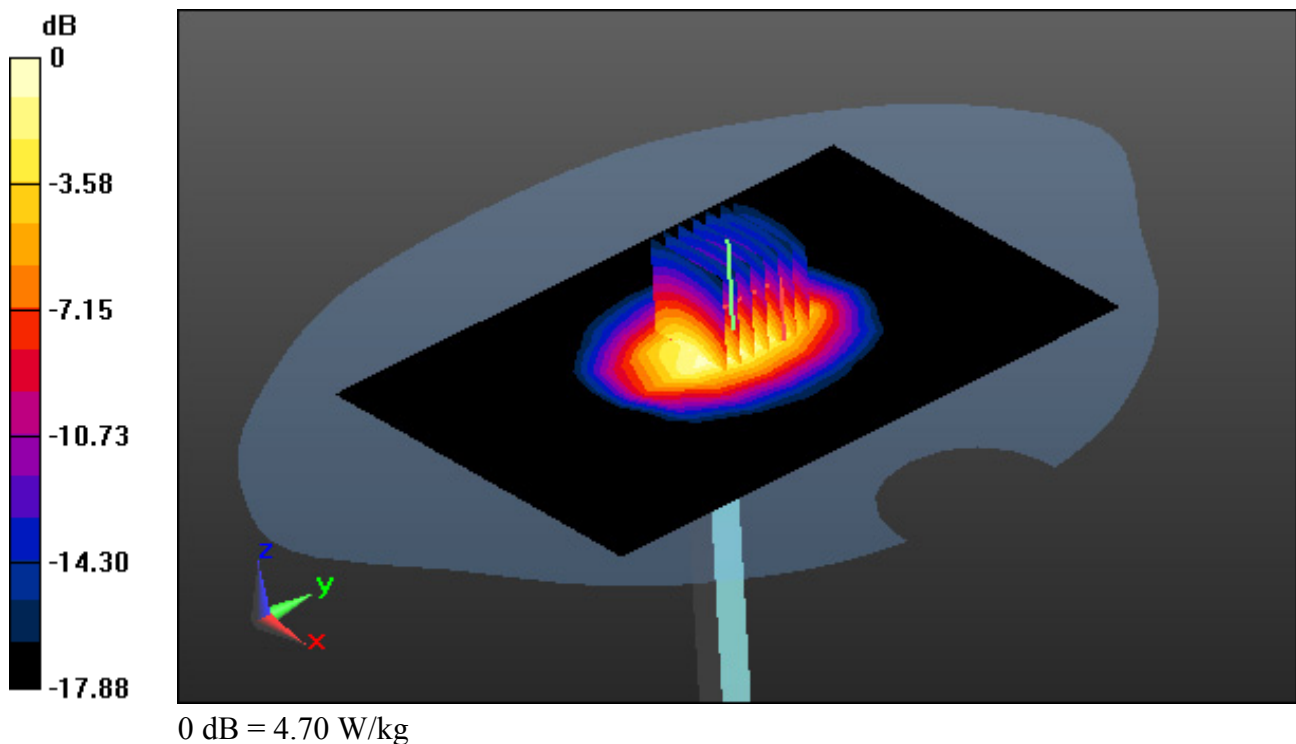
**Area Scan (9x13x1):** Measurement grid: dx=15mm, dy=15mm

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

Power Drift = 0.11 dB

Peak SAR (extrapolated) = 8.00 W/kg

SAR(1 g) = 4.23 W/kg; SAR(10 g) = 2.21 W/kg



## DT&C Co., Ltd.

**DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:726**

Communication System: UID 0, CW (0); Frequency: 2450 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.81$  S/m;  $\epsilon_r = 37.926$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3866; ConvF(7.24, 7.24, 7.24); Calibrated: 5/28/2019; Electronics: DAE4 Sn1394  
Sensor-Surface: 2mm (Mechanical Surface Detection)  
Phantom: SAM-twin middle\_2013\_09\_24; Type: QD000P40CD; Serial: 1782  
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-10-15; Ambient Temp: 20.2; Tissue Temp: 20.4

### **2450 MHz System Verification (100 mW)**

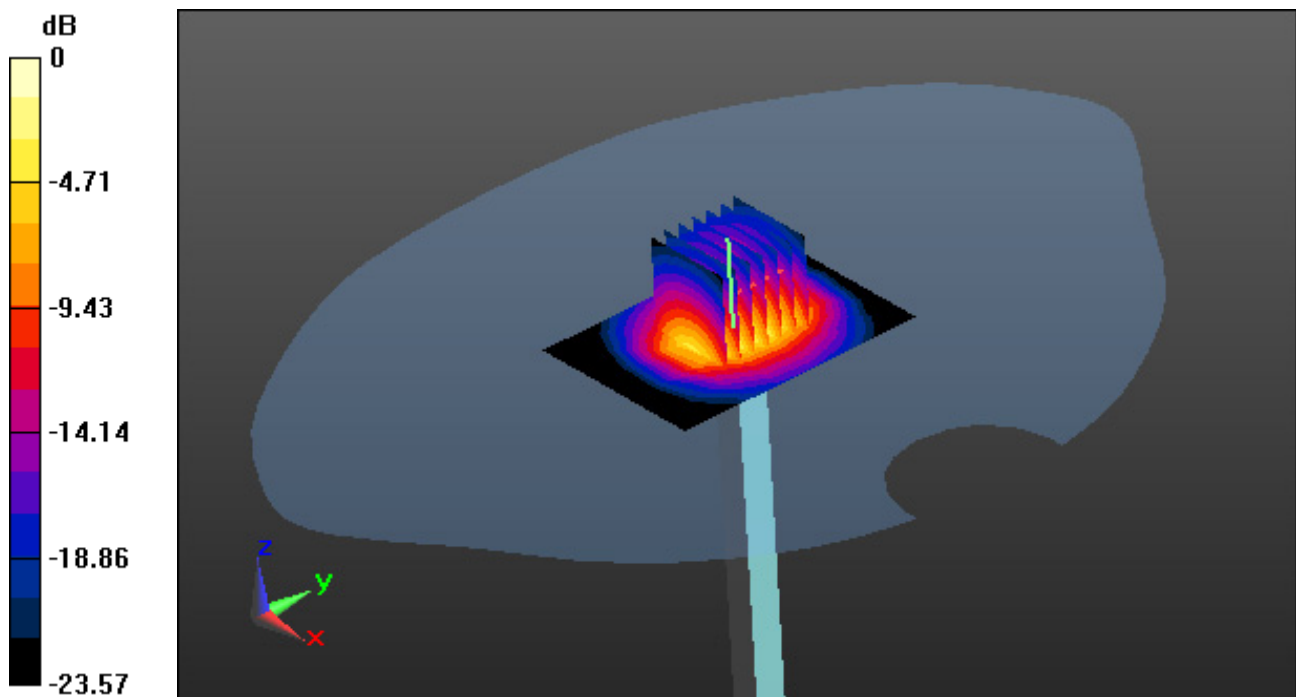
**Area Scan (6x8x1):** Measurement grid: dx=12mm, dy=12mm

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

Power Drift = -0.02 dB

Peak SAR (extrapolated) = 10.7 W/kg

SAR(1 g) = 5.06 W/kg; SAR(10 g) = 2.27 W/kg



## DT&C Co., Ltd.

**DUT: Dipole 5000 MHz; Type: D5GHzV2; Serial: D5GHzV2 - SN:1103**

Communication System: UID 0, CW (0); Frequency: 5300 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 5300$  MHz;  $\sigma = 4.627$  S/m;  $\epsilon_r = 36.86$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3933; ConvF(5.1, 5.1, 5.1); Calibrated: 9/27/2019; Electronics: DAE4 Sn1391  
Sensor-Surface: 1.4mm (Mechanical Surface Detection)  
Phantom: SAM with CRP\_2016\_07\_22\_middle; Type: QD000P40CD; Serial: TP:1786  
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-10-10; Ambient Temp: 22.6; Tissue Temp: 23.1

### **5300 MHz System Verification (100 mW)**

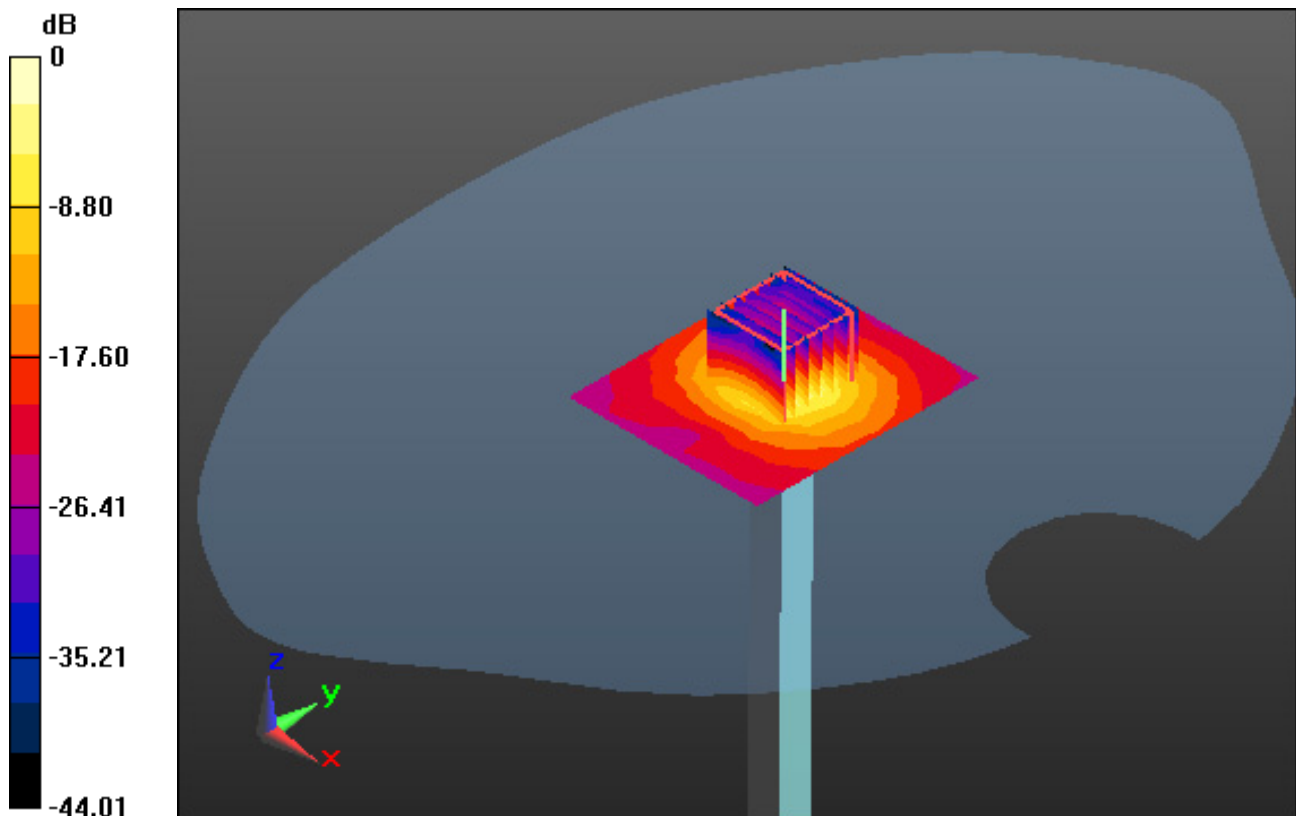
**Area Scan (7x8x1):** Measurement grid: dx=10mm, dy=10mm

**Zoom Scan (7x7x11)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm, Graded Ratio:1.4

Power Drift = 0.05 dB

Peak SAR (extrapolated) = 35.2 W/kg

SAR(1 g) = 7.84 W/kg; SAR(10 g) = 2.26 W/kg



0 dB = 19.8 W/kg

## DT&C Co., Ltd.

**DUT: Dipole 5000 MHz; Type: D5GHzV2; Serial: D5GHzV2 - SN:1103**

Communication System: UID 0, CW (0); Frequency: 5500 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 5500$  MHz;  $\sigma = 4.96$  S/m;  $\epsilon_r = 36.997$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3933; ConvF(4.95, 4.95, 4.95); Calibrated: 9/27/2019; Electronics: DAE4 Sn1391  
Sensor-Surface: 1.4mm (Mechanical Surface Detection)  
Phantom: SAM with CRP\_2016\_07\_22\_middle; Type: QD000P40CD; Serial: TP:1786  
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-10-11; Ambient Temp: 21.3; Tissue Temp: 22.5

### **5500 MHz System Verification (100 mW)**

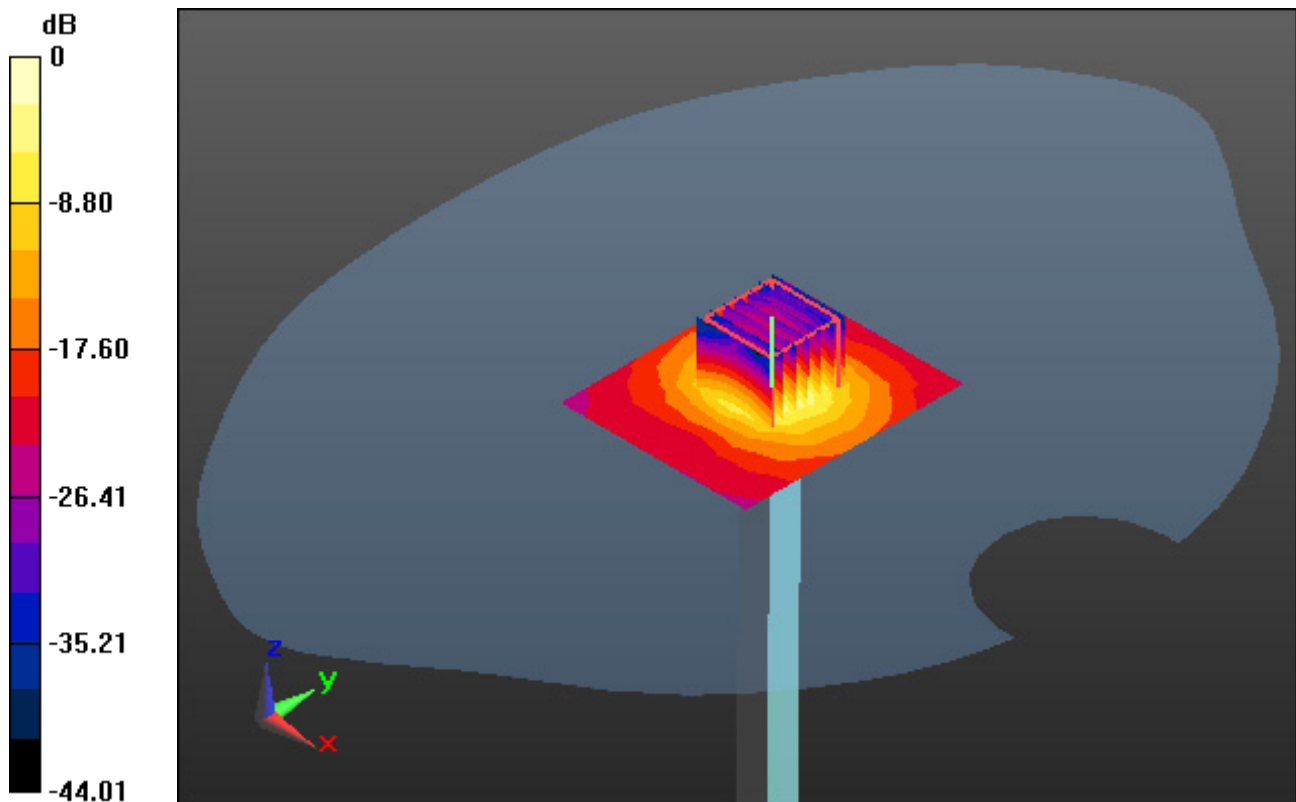
**Area Scan (7x8x1):** Measurement grid: dx=10mm, dy=10mm

**Zoom Scan (7x7x11)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm, Graded Ratio:1.4

Power Drift = 0.07 dB

Peak SAR (extrapolated) = 36.5 W/kg

SAR(1 g) = 8.44 W/kg; SAR(10 g) = 2.38 W/kg



0 dB = 16.9 W/kg

## DT&C Co., Ltd.

**DUT: DB05; Type: Bar**

Communication System: UID 0, PCS 1900 (0); Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.416$  S/m;  $\epsilon_r = 41.221$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3866; ConvF(7.85, 7.85, 7.85); Calibrated: 5/28/2019; Electronics: DAE4 Sn1394

Sensor-Surface: 2mm (Mechanical Surface Detection)

Phantom: SAM-twin middle\_2013\_09\_24; Type: QD000P40CD; Serial: 1782

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-10-10; Ambient Temp: 22.2; Tissue Temp: 22.0

**Left Touch, PCS1900 Ch. 661, Ant Internal, Standard Battery**

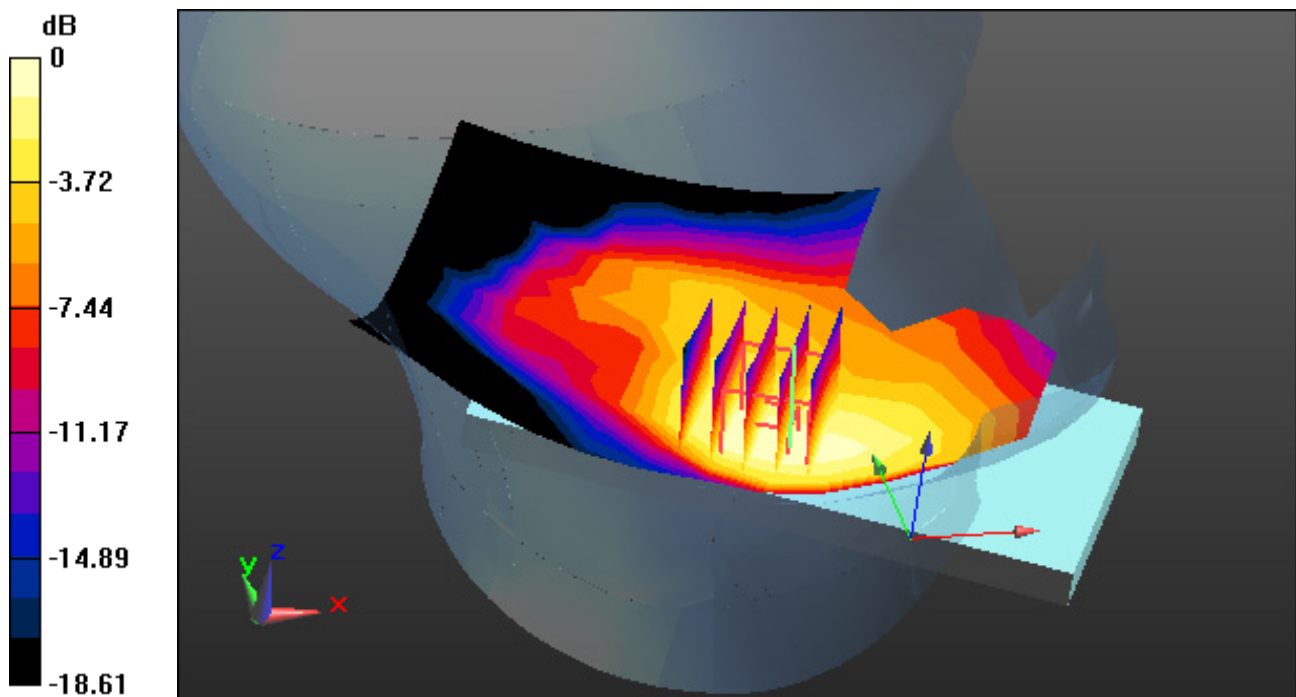
**Area Scan (9x14x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.222 W/kg

**SAR(1 g) = 0.135 W/kg; SAR(10 g) = 0.082 W/kg**



0 dB = 0.178 W/kg

## DT&C Co., Ltd.

**DUT: DB05; Type: Bar**

Communication System: UID 0, PCS1900\_4 Tx (0); Frequency: 1880 MHz; Duty Cycle: 1:2.075

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.416$  S/m;  $\epsilon_r = 41.221$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3866; ConvF(7.85, 7.85, 7.85); Calibrated: 5/28/2019; Electronics: DAE4 Sn1394

Sensor-Surface: 2mm (Mechanical Surface Detection)

Phantom: SAM-twin middle\_2013\_09\_24; Type: QD000P40CD; Serial: 1782

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-10-10; Ambient Temp: 22.2; Tissue Temp: 22.0

**Left Touch, PCS1900 GPRS 4Tx Ch. 661, Ant Internal, Standard Battery**

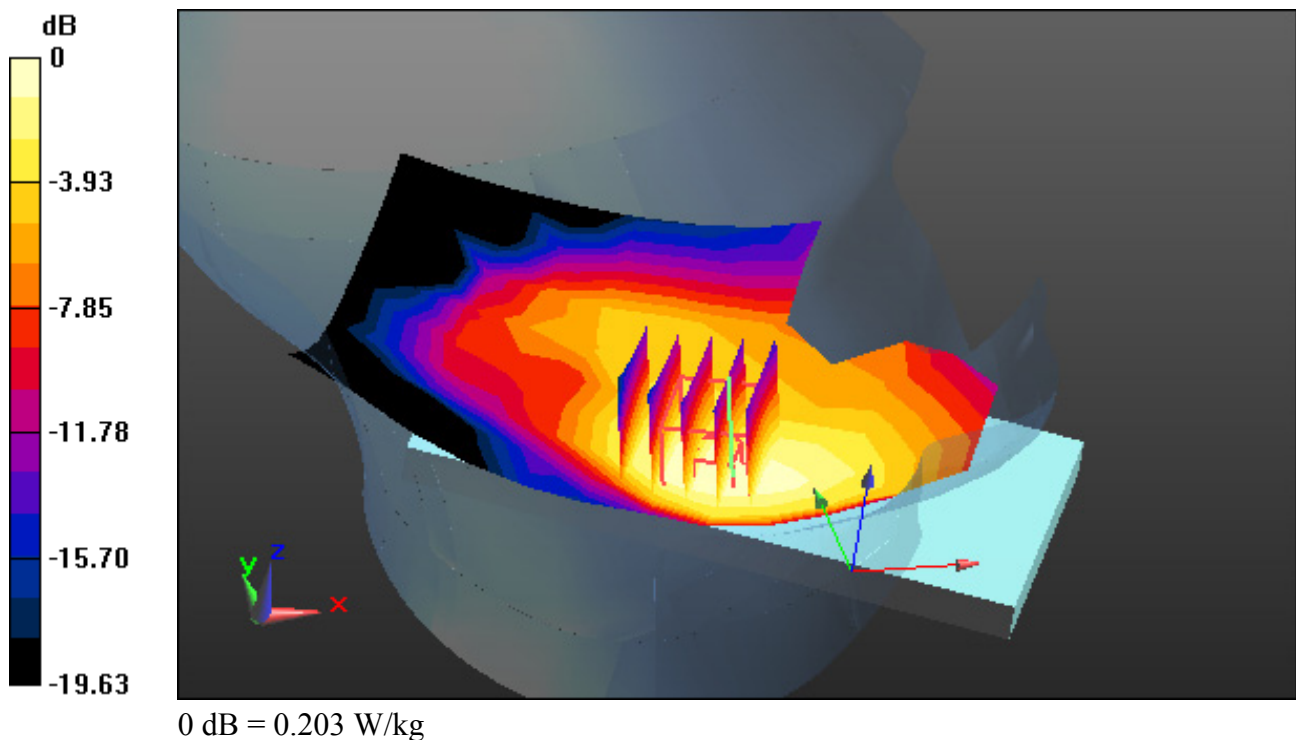
**Area Scan (9x14x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.257 W/kg

**SAR(1 g) = 0.155 W/kg; SAR(10 g) = 0.094 W/kg**



## DT&C Co., Ltd.

**DUT: DB05; Type: Bar**

Communication System: UID 0, WCDMA Band 4 (FCC) (0); Frequency: 1732.4 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1732.4$  MHz;  $\sigma = 1.354$  S/m;  $\epsilon_r = 41.152$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3866; ConvF(8.1, 8.1, 8.1); Calibrated: 5/28/2019; Electronics: DAE4 Sn1394  
Sensor-Surface: 2mm (Mechanical Surface Detection)  
Phantom: SAM-twin middle\_2013\_09\_24; Type: QD000P40CD; Serial: 1782  
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-10-11; Ambient Temp: 21.6; Tissue Temp: 21.7

**Left Touch, WCDMA Band 4 Ch. 1412, Ant Internal, Standard Battery**

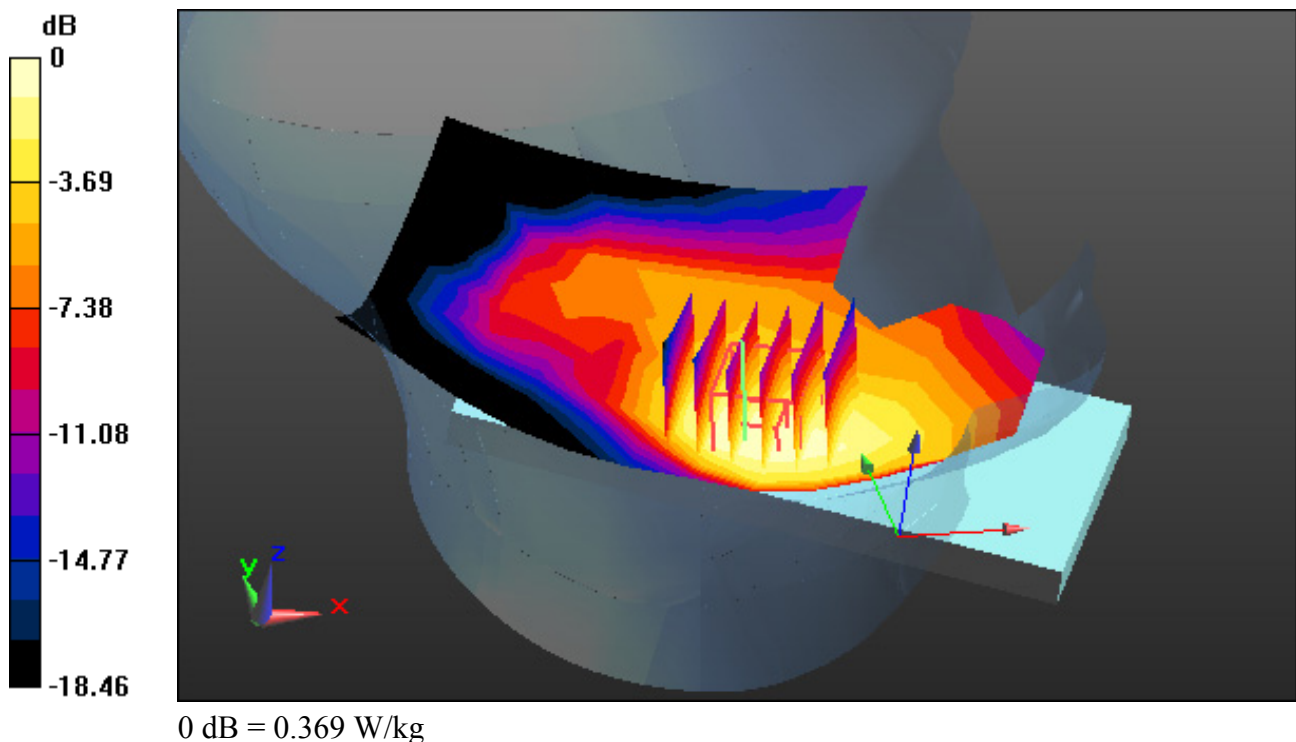
**Area Scan (9x14x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x6x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.448 W/kg

**SAR(1 g) = 0.289 W/kg; SAR(10 g) = 0.183 W/kg**



## DT&C Co., Ltd.

**DUT: DB05; Type: Bar**

Communication System: UID 0, WCDMA 1900 (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.416 \text{ S/m}$ ;  $\epsilon_r = 41.221$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3866; ConvF(7.85, 7.85, 7.85); Calibrated: 5/28/2019; Electronics: DAE4 Sn1394

Sensor-Surface: 2mm (Mechanical Surface Detection)

Phantom: SAM-twin middle\_2013\_09\_24; Type: QD000P40CD; Serial: 1782

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-10-10; Ambient Temp: 22.2; Tissue Temp: 22.0

**Left Touch, WCDMA Band 2 Ch. 9400, Ant Internal, Standard Battery**

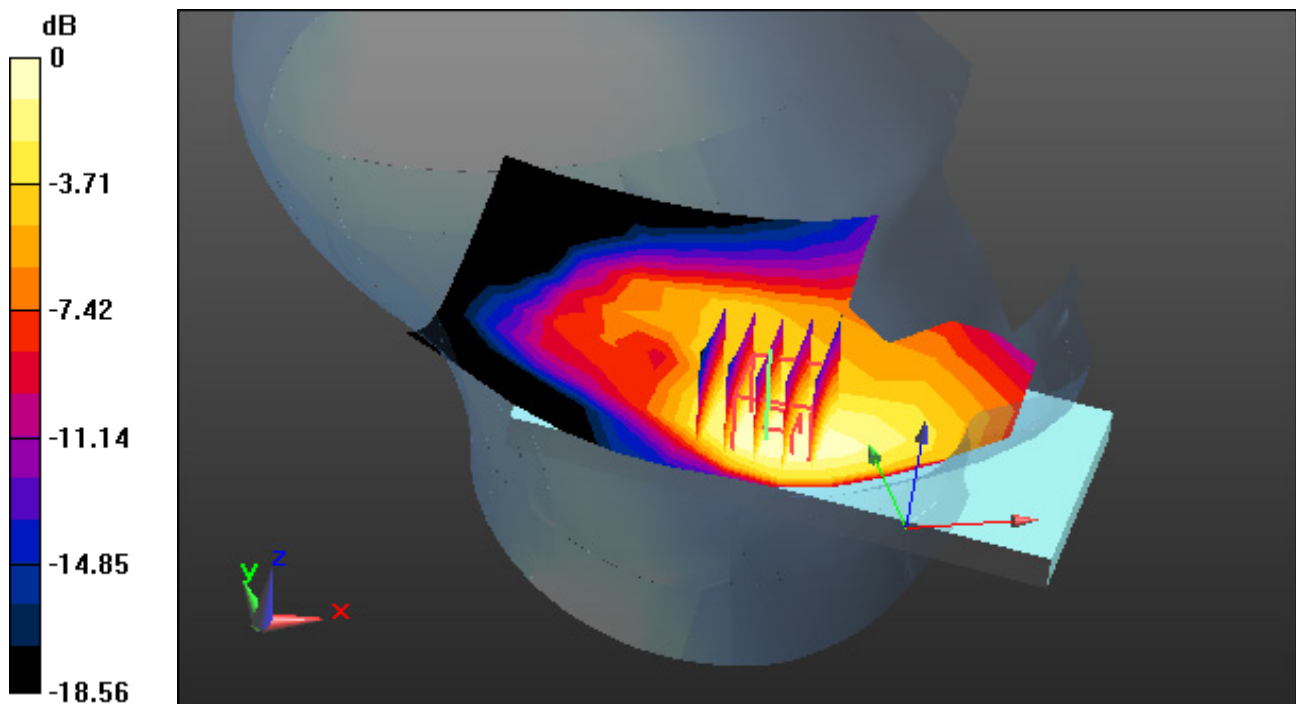
**Area Scan (9x14x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.459 W/kg

**SAR(1 g) = 0.284 W/kg; SAR(10 g) = 0.175 W/kg**



0 dB = 0.368 W/kg

## DT&C Co., Ltd.

**DUT: DB05; Type: Bar**

Communication System: UID 0, LTE Band 4 (0); Frequency: 1732.5 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1732.5$  MHz;  $\sigma = 1.354$  S/m;  $\epsilon_r = 41.152$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3866; ConvF(8.1, 8.1, 8.1); Calibrated: 5/28/2019; Electronics: DAE4 Sn1394  
Sensor-Surface: 2mm (Mechanical Surface Detection)  
Phantom: SAM-twin middle\_2013\_09\_24; Type: QD000P40CD; Serial: 1782  
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-10-11; Ambient Temp: 21.6; Tissue Temp: 21.7

**Left Touch, LTE Band 4 Ch. 20175, Ant Internal, Standard Battery**

**Mode : BandWidth 20 MHz, QPSK, RB Size: 1**

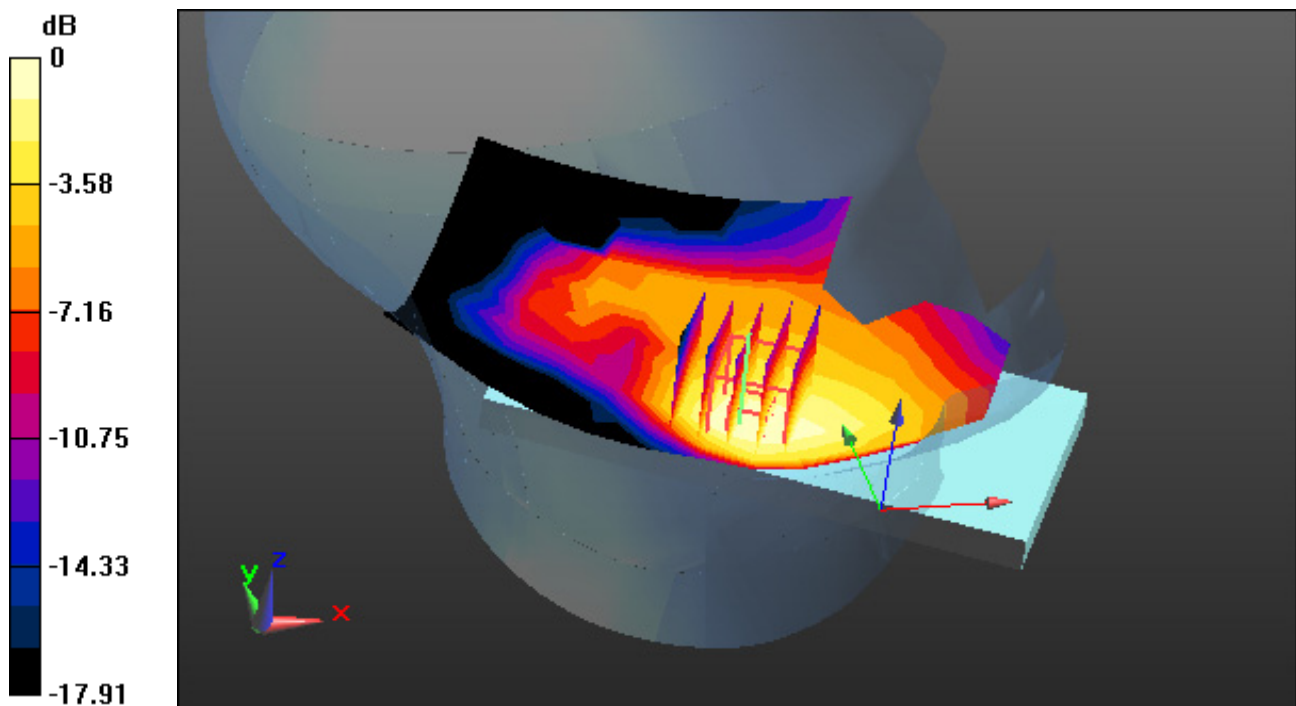
**Area Scan (9x14x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.130 W/kg

**SAR(1 g) = 0.084 W/kg; SAR(10 g) = 0.053 W/kg**



0 dB = 0.106 W/kg

## DT&C Co., Ltd.

**DUT: DB05; Type: Bar**

Communication System: UID 0, LTE Band 2 (0); Frequency: 1880 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.421 \text{ S/m}$ ;  $\epsilon_r = 41.066$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Left Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3866; ConvF(7.85, 7.85, 7.85); Calibrated: 5/28/2019; Electronics: DAE4 Sn1394  
Sensor-Surface: 2mm (Mechanical Surface Detection)  
Phantom: SAM-twin middle\_2013\_09\_24; Type: QD000P40CD; Serial: 1782  
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-10-14; Ambient Temp: 20.3; Tissue Temp: 20.3

**Left Touch, LTE Band 2 Ch. 18900, Ant Internal, Standard Battery**

**Mode : BandWidth 20 MHz, QPSK, RB Size: 1**

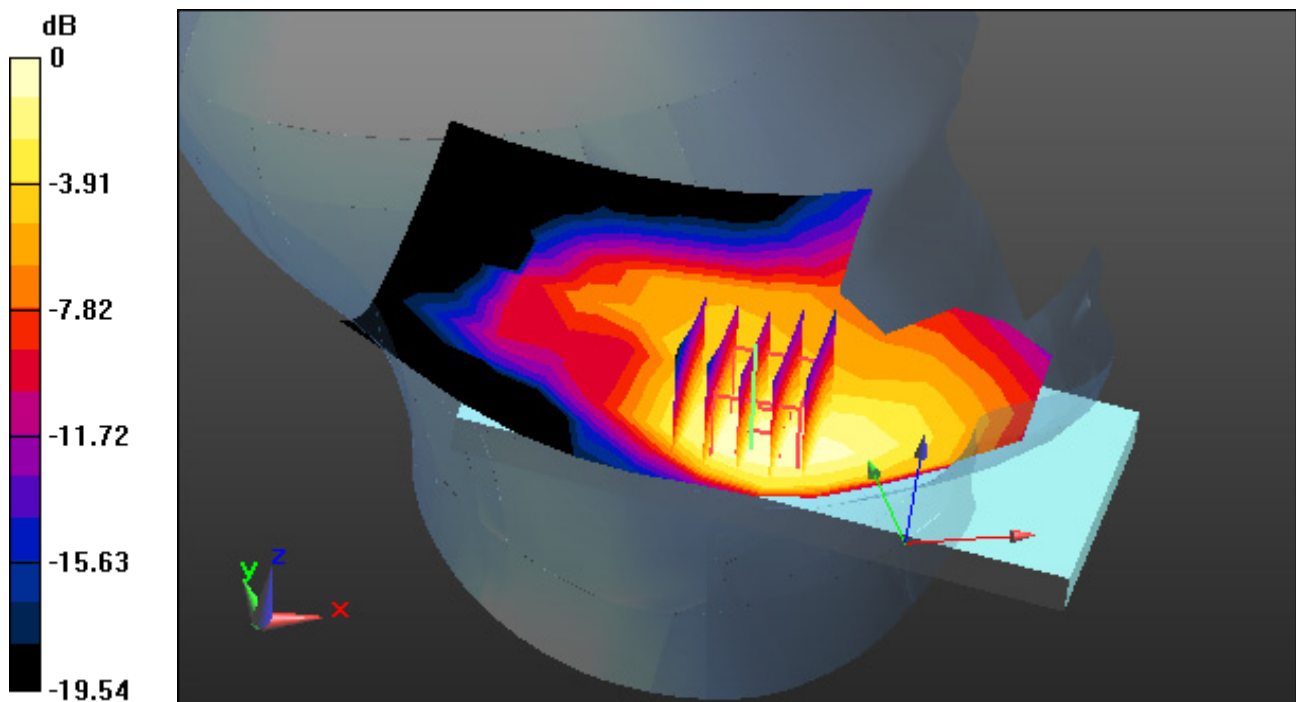
**Area Scan (9x14x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.167 W/kg

**SAR(1 g) = 0.102 W/kg; SAR(10 g) = 0.062 W/kg**



0 dB = 0.135 W/kg

## DT&C Co., Ltd.

**DUT: DB05; Type: Bar**

Communication System: UID 0, 00\_2.4 GHz W-LAN (0); Frequency: 2412 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 2412$  MHz;  $\sigma = 1.767$  S/m;  $\epsilon_r = 38.036$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3866; ConvF(7.24, 7.24, 7.24); Calibrated: 5/28/2019; Electronics: DAE4 Sn1394  
Sensor-Surface: 2mm (Mechanical Surface Detection)  
Phantom: SAM-twin middle\_2013\_09\_24; Type: QD000P40CD; Serial: 1782  
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-10-15; Ambient Temp: 20.2; Tissue Temp: 20.4

**Left Tilt, WLAN(802.11b) Ch. 1, Ant Internal, Standard Battery**

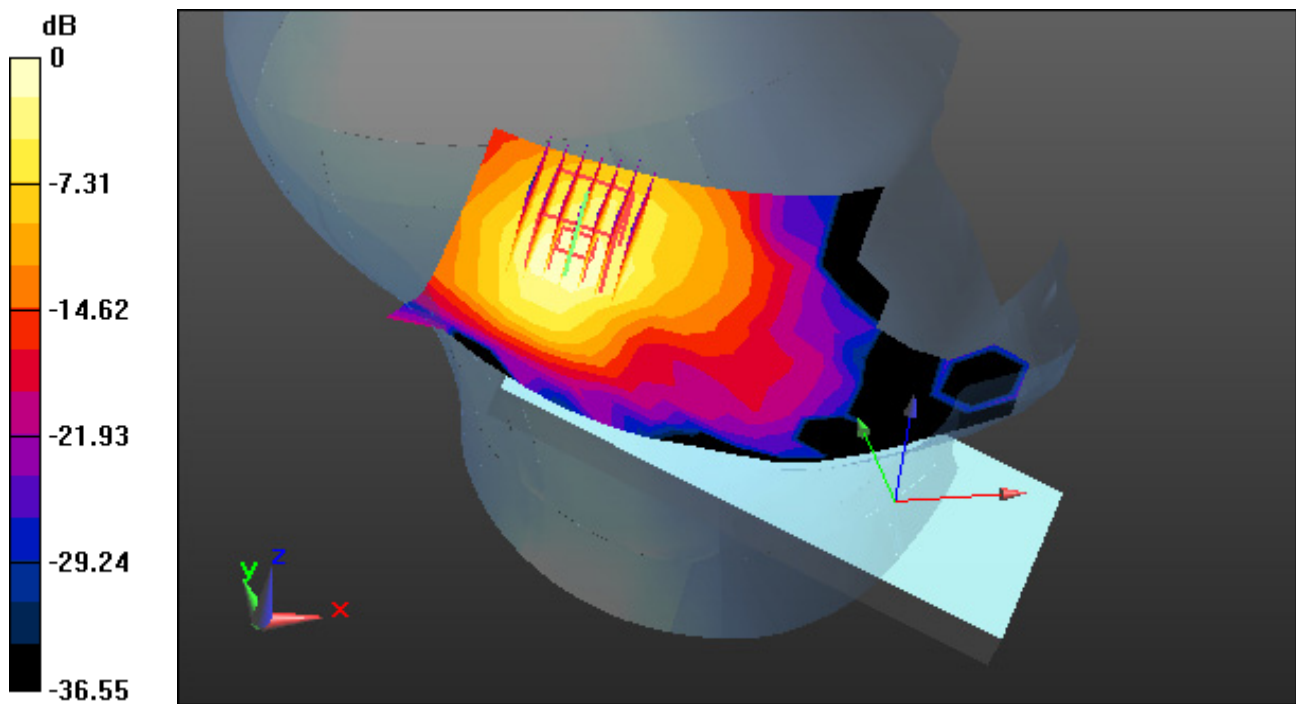
**Area Scan (11x17x1):** Measurement grid: dx=12mm, dy=12mm

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

Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.463 W/kg

**SAR(1 g) = 0.190 W/kg; SAR(10 g) = 0.091 W/kg**



0 dB = 0.292 W/kg

## DT&C Co., Ltd.

**DUT: DB05; Type: Bar**

Communication System: UID 0, W-LAN\_5300 (0); Frequency: 5290 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5290 \text{ MHz}$ ;  $\sigma = 4.619 \text{ S/m}$ ;  $\epsilon_r = 36.885$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3933; ConvF(5.1, 5.1, 5.1); Calibrated: 9/27/2019; Electronics: DAE4 Sn1391

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Phantom: SAM with CRP\_2016\_07\_22\_middle; Type: QD000P40CD; Serial: TP:1786

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-10-10; Ambient Temp: 22.6; Tissue Temp: 23.1

**Left Touch, WLAN(802.11ac VHT80) Ch. 58, Ant Internal, Standard Battery**

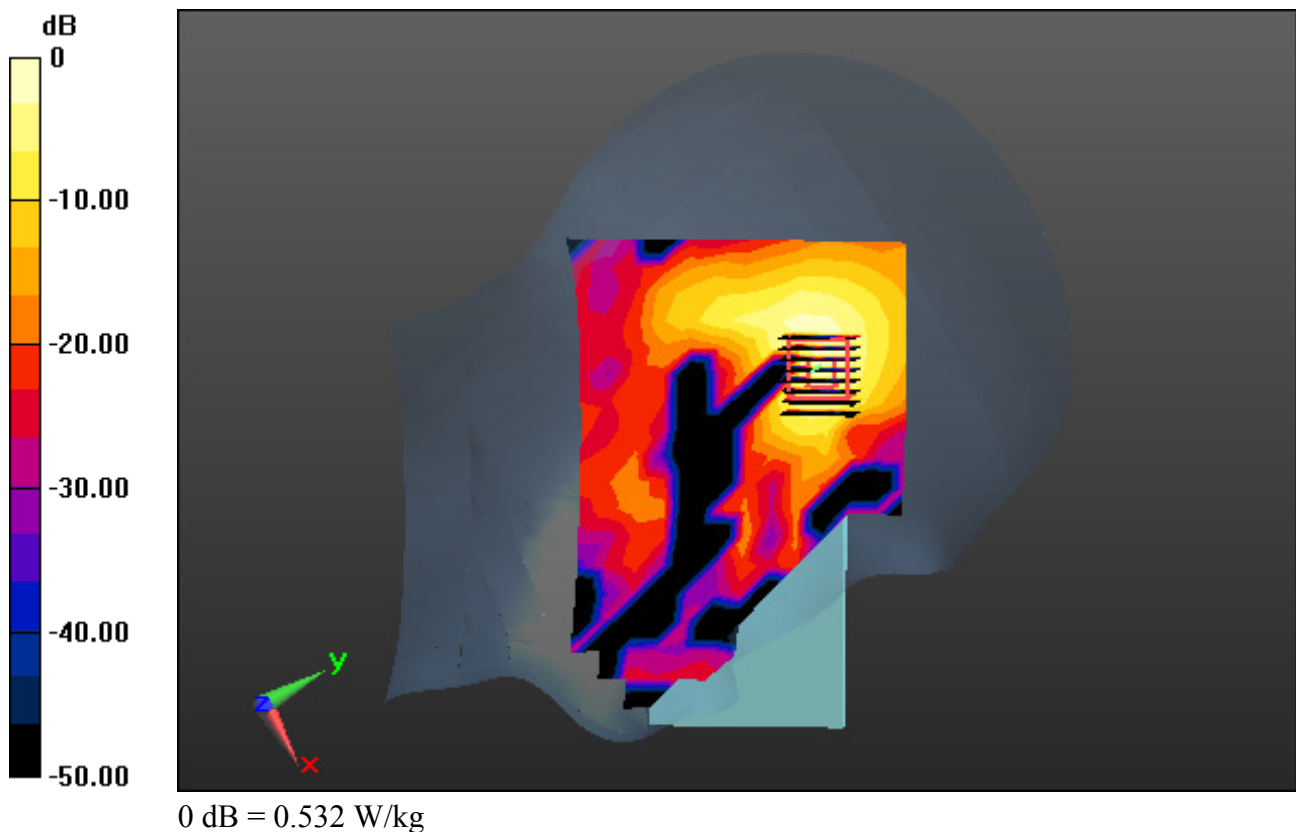
**Area Scan (13x21x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

**Zoom Scan (8x8x7)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=1.4\text{mm}$ , Graded Ratio:1.4

Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.844 W/kg

**SAR(1 g) = 0.233 W/kg; SAR(10 g) = 0.066 W/kg**



## DT&C Co., Ltd.

**DUT: DB05; Type: Bar**

Communication System: UID 0, W-LAN\_5600 (0); Frequency: 5530 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5530$  MHz;  $\sigma = 4.987$  S/m;  $\epsilon_r = 36.944$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3933; ConvF(4.95, 4.95, 4.95); Calibrated: 9/27/2019; Electronics: DAE4 Sn1391

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Phantom: SAM with CRP\_2016\_07\_22\_middle; Type: QD000P40CD; Serial: TP:1786

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-10-11; Ambient Temp: 21.3; Tissue Temp: 22.5

**Left Touch, WLAN(802.11ac VHT80) Ch. 106, Ant Internal, Standard Battery**

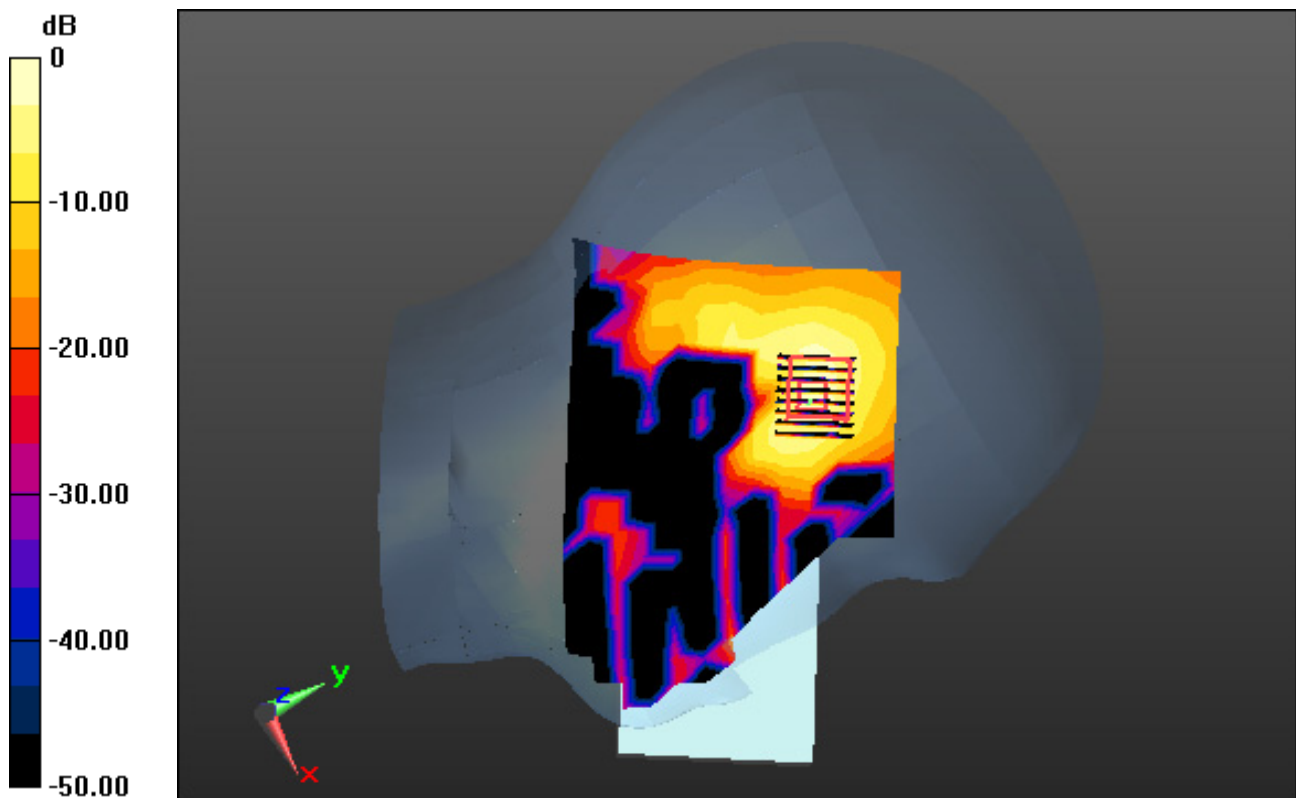
**Area Scan (13x21x1):** Measurement grid: dx=10mm, dy=10mm

**Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm, Graded Ratio:1.4

Power Drift = 0.09 dB

Peak SAR (extrapolated) = 1.12 W/kg

**SAR(1 g) = 0.276 W/kg; SAR(10 g) = 0.086 W/kg**



0 dB = 0.655 W/kg

## DT&C Co., Ltd.

**DUT: DB05; Type: Bar**

Communication System: UID 0, Bluetooth (0); Frequency: 2441 MHz; Duty Cycle: 1:1.302

Medium parameters used:  $f = 2441 \text{ MHz}$ ;  $\sigma = 1.799 \text{ S/m}$ ;  $\epsilon_r = 37.956$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3866; ConvF(7.24, 7.24, 7.24); Calibrated: 5/28/2019; Electronics: DAE4 Sn1394

Sensor-Surface: 2mm (Mechanical Surface Detection)

Phantom: SAM-twin right\_2013\_09\_24; Type: QD000P40CD; Serial: TP:1782

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-10-15; Ambient Temp: 20.2; Tissue Temp: 20.4

**Left Tilt, Bluetooth 1Mbps Ch. 39, Ant Internal, Standard Battery**

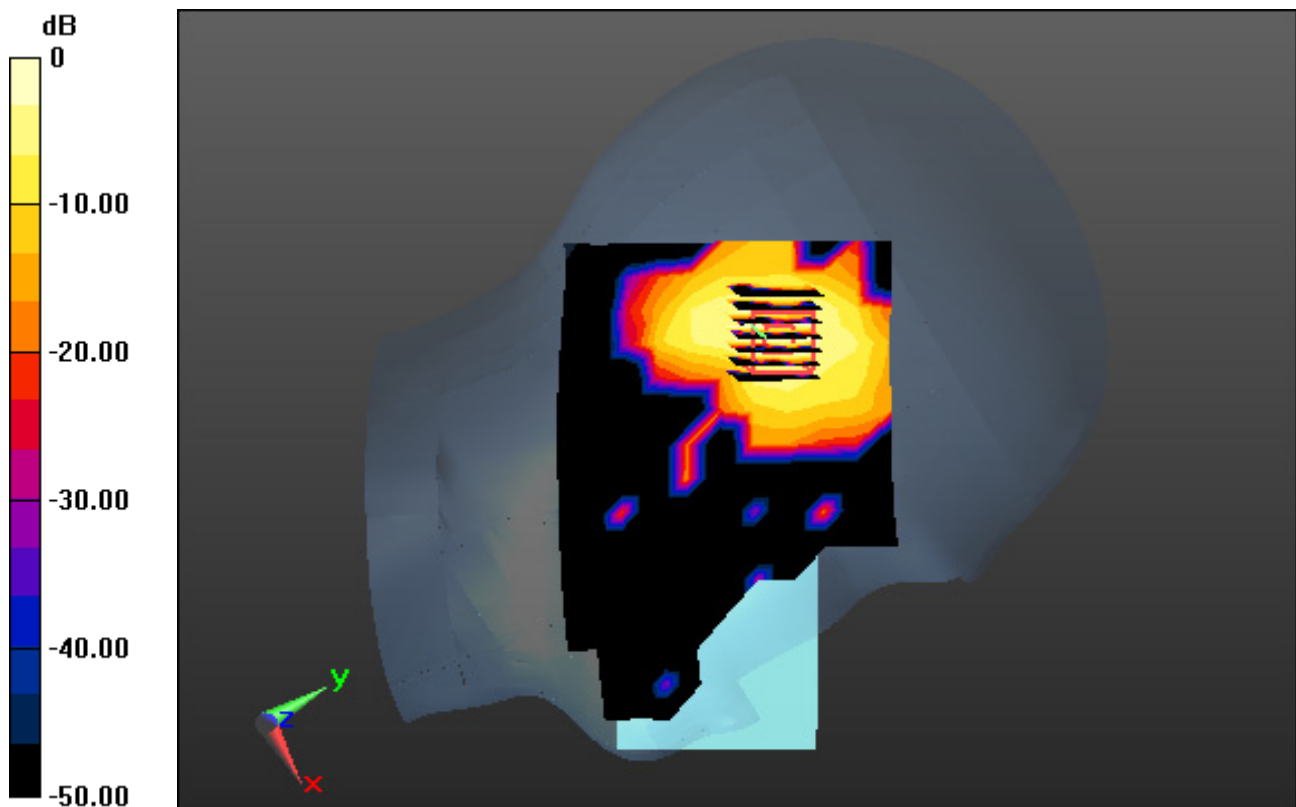
**Area Scan (11x17x1):** Measurement grid:  $dx=12\text{mm}$ ,  $dy=12\text{mm}$

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

Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.0480 W/kg

**SAR(1 g) = 0.020 W/kg; SAR(10 g) = 0.00765 W/kg**



0 dB = 0.0344 W/kg

## DT&C Co., Ltd.

**DUT: DB05; Type: Bar**

Communication System: UID 0, PCS 1900 (0); Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.416$  S/m;  $\epsilon_r = 41.221$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3866; ConvF(7.85, 7.85, 7.85); Calibrated: 5/28/2019; Electronics: DAE4 Sn1394

Sensor-Surface: 2mm (Mechanical Surface Detection)

Phantom: SAM-twin middle\_2013\_09\_24; Type: QD000P40CD; Serial: 1782

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-10-10; Ambient Temp: 22.2; Tissue Temp: 22.0

**1 cm space from Body, Rear, PCS1900 Ch. 661, Ant Internal**

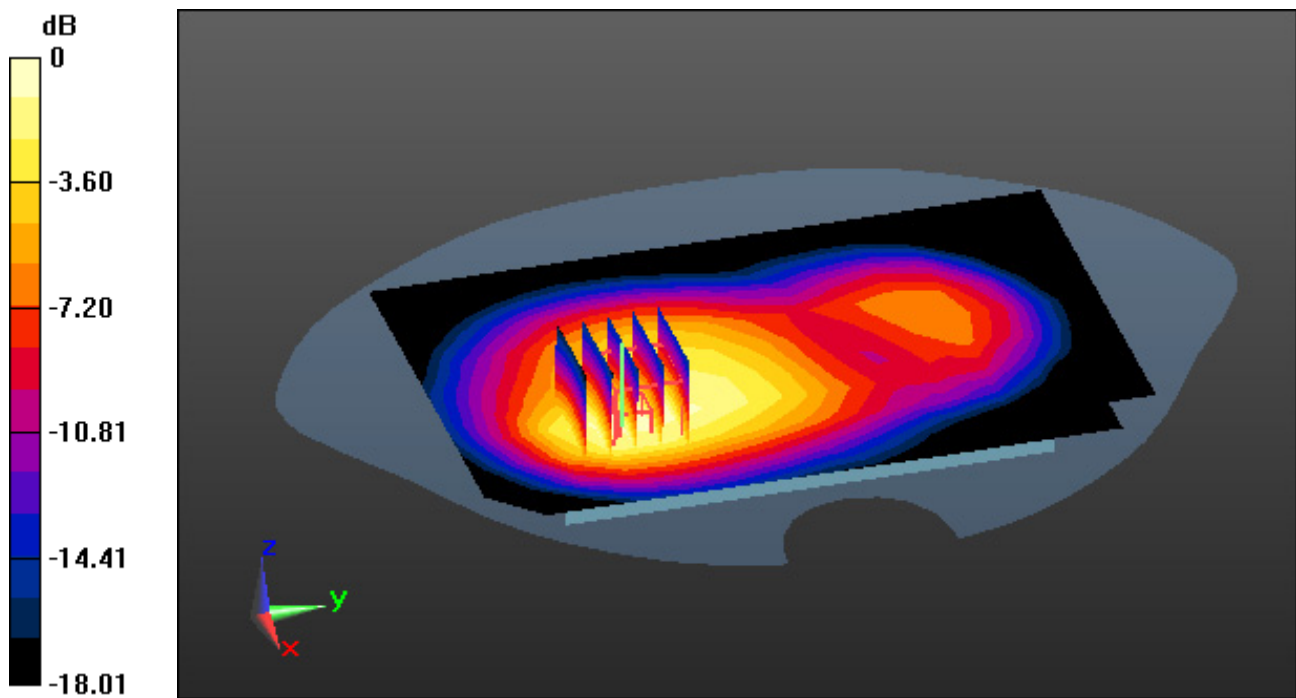
**Area Scan (10x15x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.575 W/kg

**SAR(1 g) = 0.334 W/kg; SAR(10 g) = 0.192 W/kg**



0 dB = 0.457 W/kg

## DT&C Co., Ltd.

**DUT: DB05; Type: Bar**

Communication System: UID 0, PCS1900\_4 Tx (0); Frequency: 1880 MHz; Duty Cycle: 1:2.075

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.416$  S/m;  $\epsilon_r = 41.221$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3866; ConvF(7.85, 7.85, 7.85); Calibrated: 5/28/2019; Electronics: DAE4 Sn1394

Sensor-Surface: 2mm (Mechanical Surface Detection)

Phantom: SAM-twin middle\_2013\_09\_24; Type: QD000P40CD; Serial: 1782

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-10-10; Ambient Temp: 22.2; Tissue Temp: 22.0

**1 cm space from Body, Rear, PCS1900 GPRS 4Tx Ch. 661, Ant Internal**

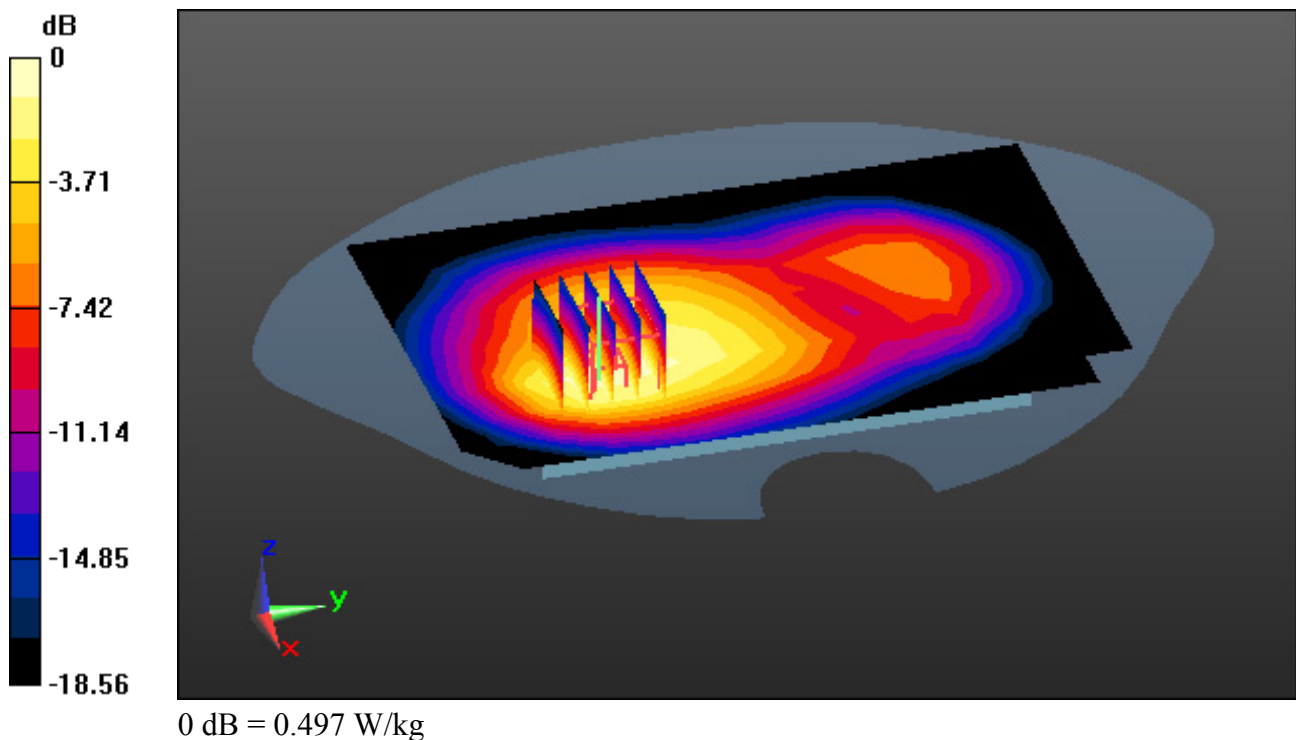
**Area Scan (10x15x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.628 W/kg

**SAR(1 g) = 0.361 W/kg; SAR(10 g) = 0.207 W/kg**



## DT&C Co., Ltd.

**DUT: DB05; Type: Bar**

Communication System: UID 0, WCDMA Band 4 (FCC) (0); Frequency: 1732.4 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1732.4$  MHz;  $\sigma = 1.354$  S/m;  $\epsilon_r = 41.152$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3866; ConvF(8.1, 8.1, 8.1); Calibrated: 5/28/2019; Electronics: DAE4 Sn1394  
Sensor-Surface: 2mm (Mechanical Surface Detection)  
Phantom: SAM-twin middle\_2013\_09\_24; Type: QD000P40CD; Serial: 1782  
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-10-11; Ambient Temp: 21.6; Tissue Temp: 21.7

**1 cm space from Body, Rear, WCDMA Band 4 Ch. 1412, Ant Internal**

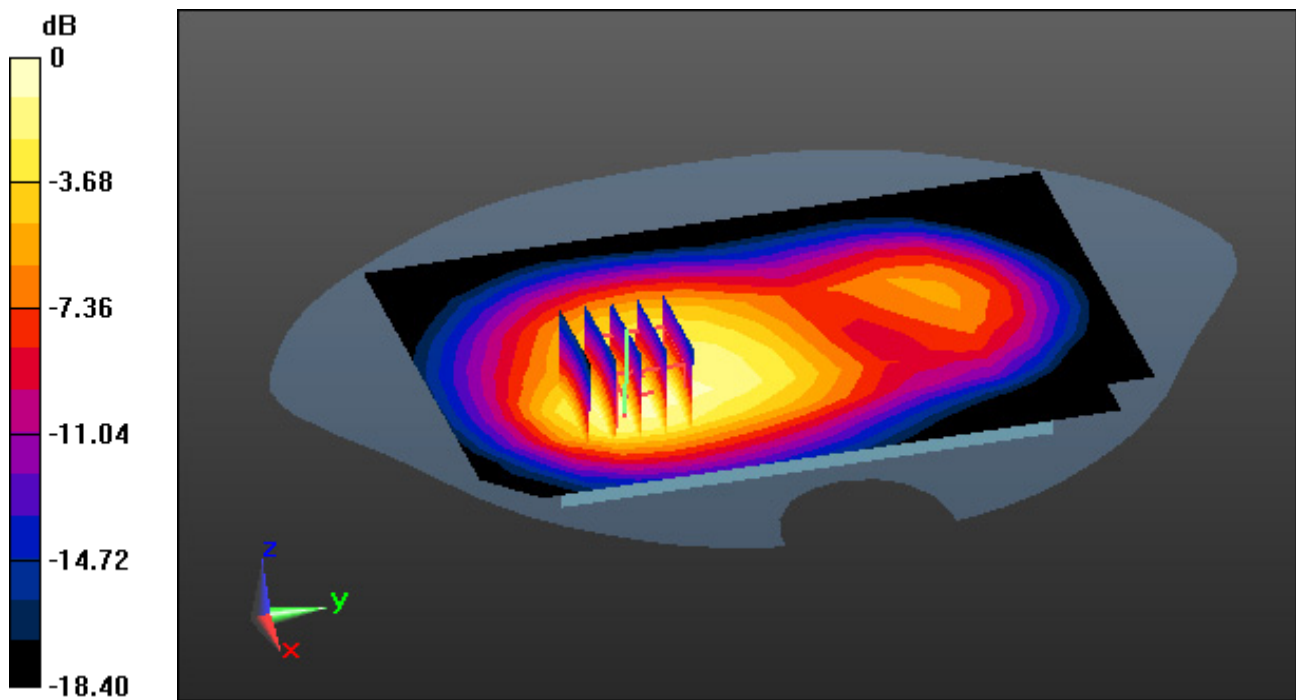
**Area Scan (10x15x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.841 W/kg

SAR(1 g) = 0.491 W/kg; SAR(10 g) = 0.285 W/kg



0 dB = 0.664 W/kg

## DT&C Co., Ltd.

**DUT: DB05; Type: Bar**

Communication System: UID 0, WCDMA 1900 (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.416$  S/m;  $\epsilon_r = 41.221$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3866; ConvF(7.85, 7.85, 7.85); Calibrated: 5/28/2019; Electronics: DAE4 Sn1394

Sensor-Surface: 2mm (Mechanical Surface Detection)

Phantom: SAM-twin middle\_2013\_09\_24; Type: QD000P40CD; Serial: 1782

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-10-10; Ambient Temp: 22.2; Tissue Temp: 22.0

**1 cm space from Body, Rear, WCDMA Band 2 Ch. 9400, Ant Internal**

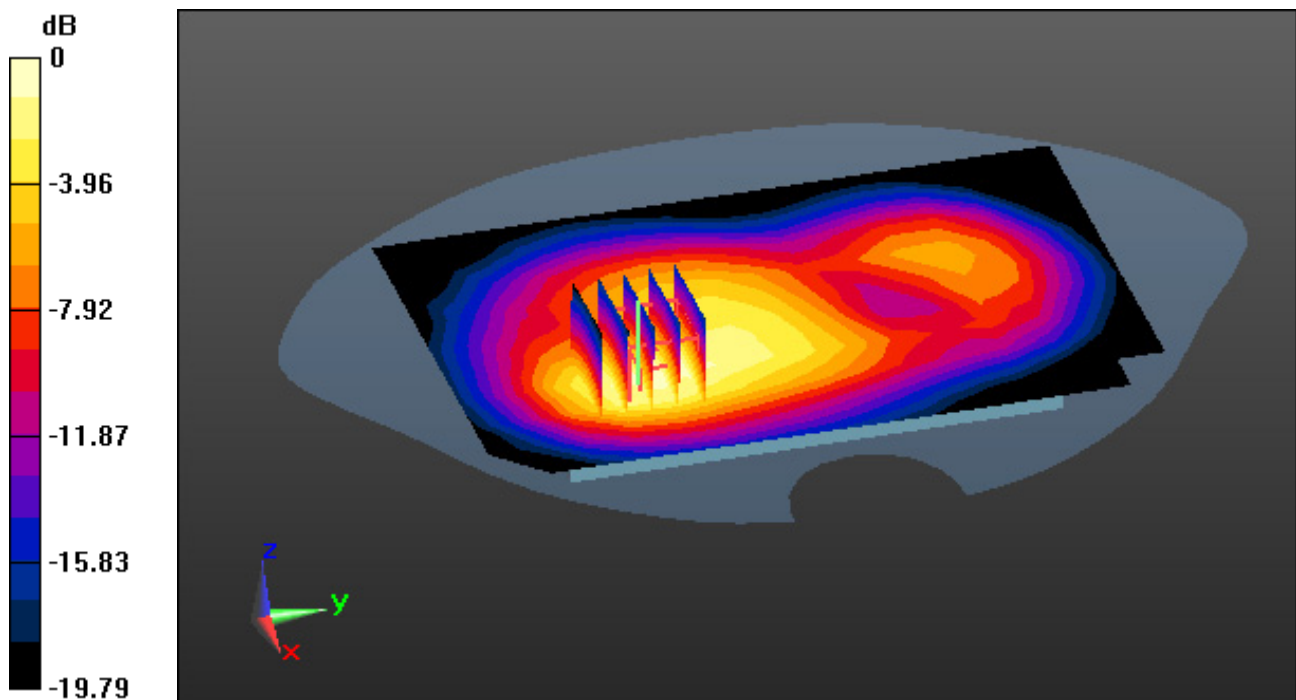
**Area Scan (10x15x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Power Drift = -0.12 dB

Peak SAR (extrapolated) = 1.00 W/kg

**SAR(1 g) = 0.562 W/kg; SAR(10 g) = 0.312 W/kg**



0 dB = 0.774 W/kg

## DT&C Co., Ltd.

**DUT: DB05; Type: Bar**

Communication System: UID 0, LTE Band 4 (0); Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1732.5$  MHz;  $\sigma = 1.354$  S/m;  $\epsilon_r = 41.152$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3866; ConvF(8.1, 8.1, 8.1); Calibrated: 5/28/2019; Electronics: DAE4 Sn1394

Sensor-Surface: 2mm (Mechanical Surface Detection)

Phantom: SAM-twin middle\_2013\_09\_24; Type: QD000P40CD; Serial: 1782

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-10-11; Ambient Temp: 21.6; Tissue Temp: 21.7

**1 cm space from Body, Rear, LTE Band 4 Ch. 20175, Ant Internal**

**Mode : BandWidth 20 MHz, QPSK, RB Size: 1**

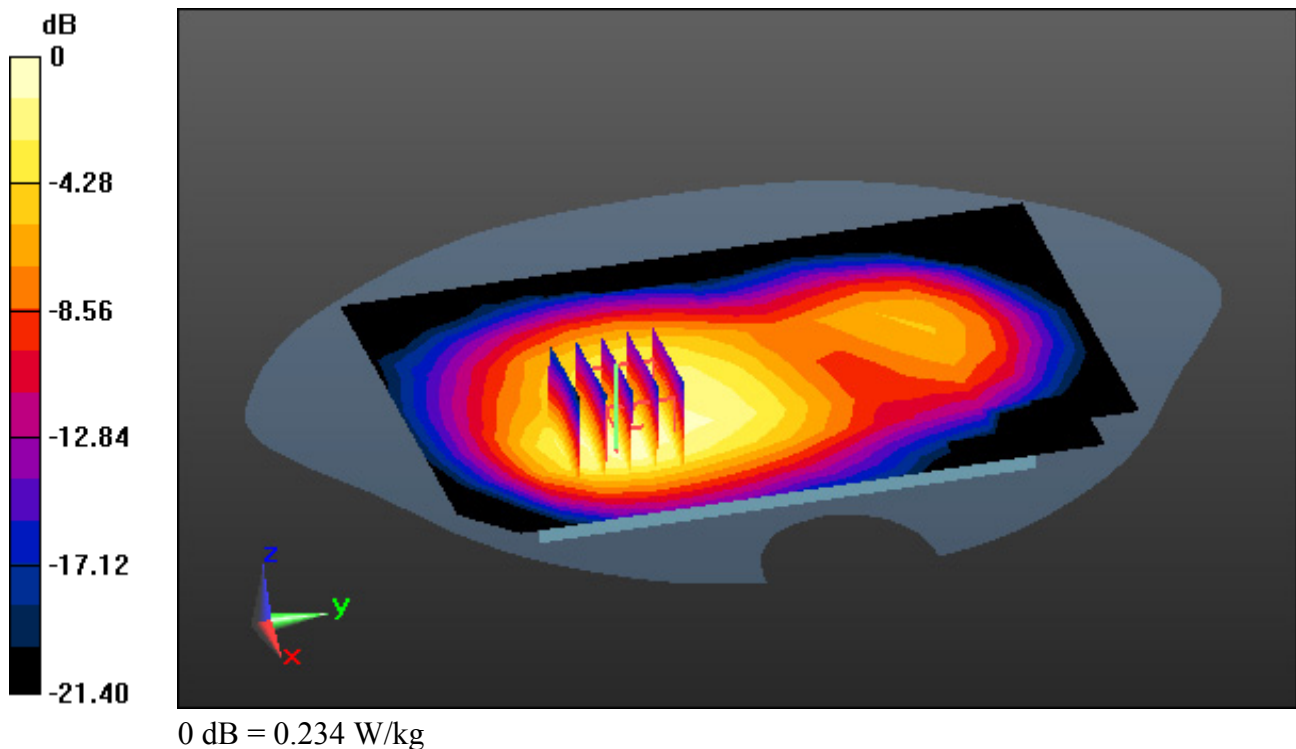
**Area Scan (10x15x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.299 W/kg

**SAR(1 g) = 0.174 W/kg; SAR(10 g) = 0.101 W/kg**



## DT&C Co., Ltd.

**DUT: DB05; Type: Bar**

Communication System: UID 0, LTE Band 2 (0); Frequency: 1880 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.421 \text{ S/m}$ ;  $\epsilon_r = 41.066$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3866; ConvF(7.85, 7.85, 7.85); Calibrated: 5/28/2019; Electronics: DAE4 Sn1394  
Sensor-Surface: 2mm (Mechanical Surface Detection)  
Phantom: SAM-twin middle\_2013\_09\_24; Type: QD000P40CD; Serial: 1782  
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-10-14; Ambient Temp: 20.3; Tissue Temp: 20.3

**1 cm space from Body, Front, LTE Band 2 Ch. 18900, Ant Internal**

**Mode : BandWidth 20 MHz, QPSK, RB Size: 1**

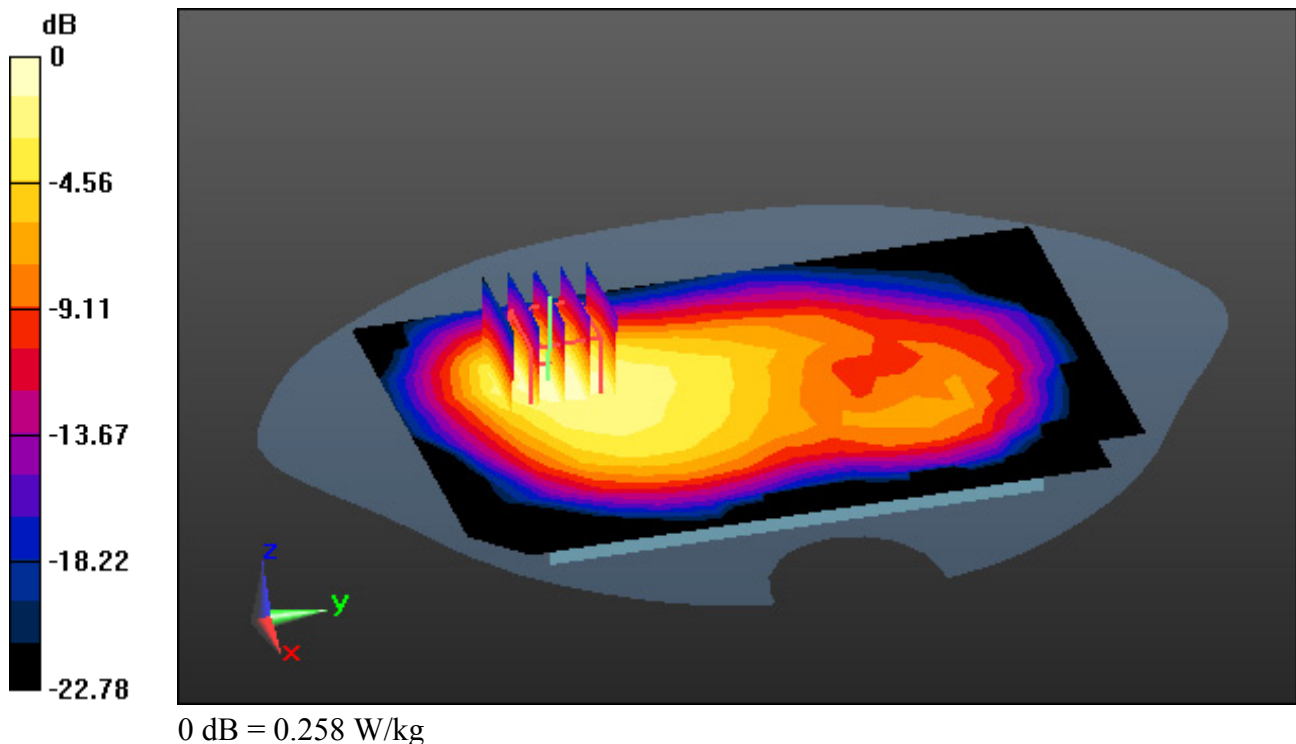
**Area Scan (10x15x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.347 W/kg

**SAR(1 g) = 0.188 W/kg; SAR(10 g) = 0.103 W/kg**



## DT&C Co., Ltd.

**DUT: DB05; Type: Bar**

Communication System: UID 0, 00\_2.4 GHz W-LAN (0); Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2412 \text{ MHz}$ ;  $\sigma = 1.767 \text{ S/m}$ ;  $\epsilon_r = 38.036$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3866; ConvF(7.24, 7.24, 7.24); Calibrated: 5/28/2019; Electronics: DAE4 Sn1394

Sensor-Surface: 2mm (Mechanical Surface Detection)

Phantom: SAM-twin middle\_2013\_09\_24; Type: QD000P40CD; Serial: 1782

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-10-15; Ambient Temp: 20.2; Tissue Temp: 20.4

**1 cm space from Body, Rear, WLAN(802.11b) Ch. 1, Ant Internal**

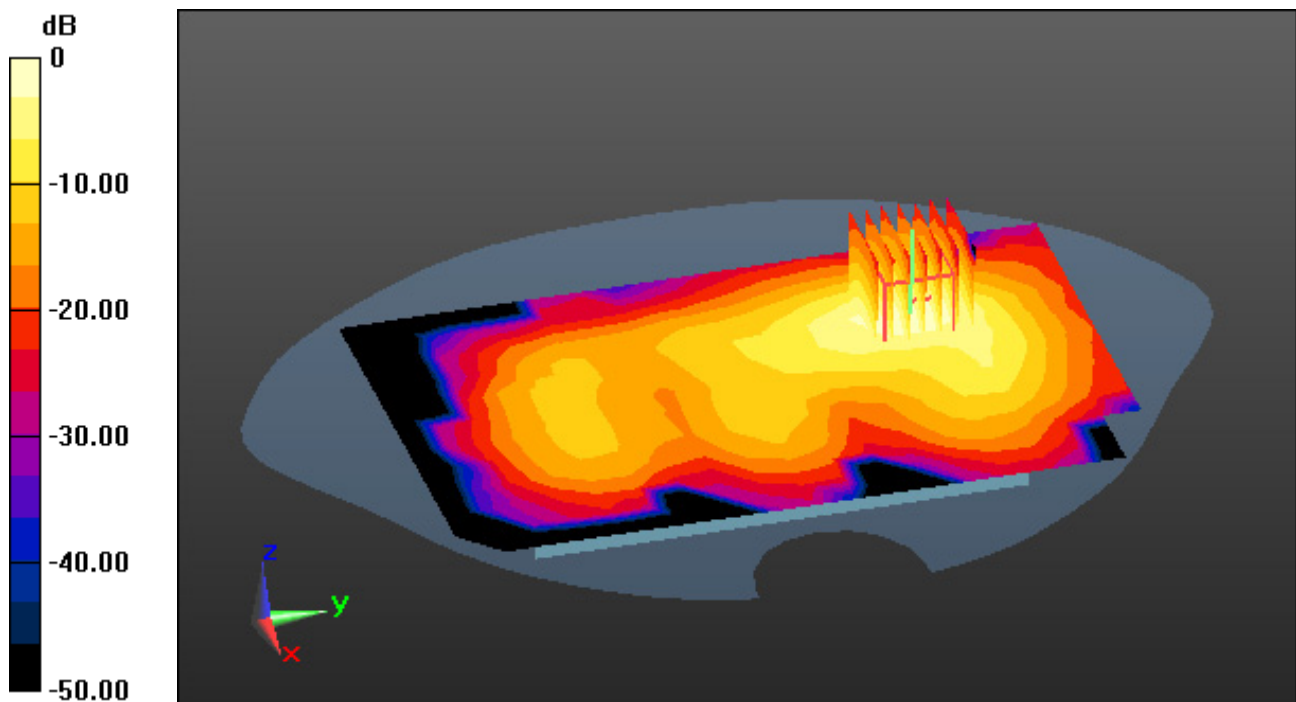
**Area Scan (12x19x1):** Measurement grid:  $dx=12\text{mm}$ ,  $dy=12\text{mm}$

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

Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.711 W/kg

**SAR(1 g) = 0.334 W/kg; SAR(10 g) = 0.148 W/kg**



0 dB = 0.519 W/kg

## DT&C Co., Ltd.

**DUT: DB05; Type: Bar**

Communication System: UID 0, W-LAN\_5300 (0); Frequency: 5290 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5290 \text{ MHz}$ ;  $\sigma = 4.619 \text{ S/m}$ ;  $\epsilon_r = 36.885$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3933; ConvF(5.1, 5.1, 5.1); Calibrated: 9/27/2019; Electronics: DAE4 Sn1391

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Phantom: SAM with CRP\_2016\_07\_22\_middle; Type: QD000P40CD; Serial: TP:1786

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-10-10; Ambient Temp: 22.6; Tissue Temp: 23.1

**1 cm space from Body, Rear, WLAN(802.11ac VHT80) Ch. 58, Ant Internal**

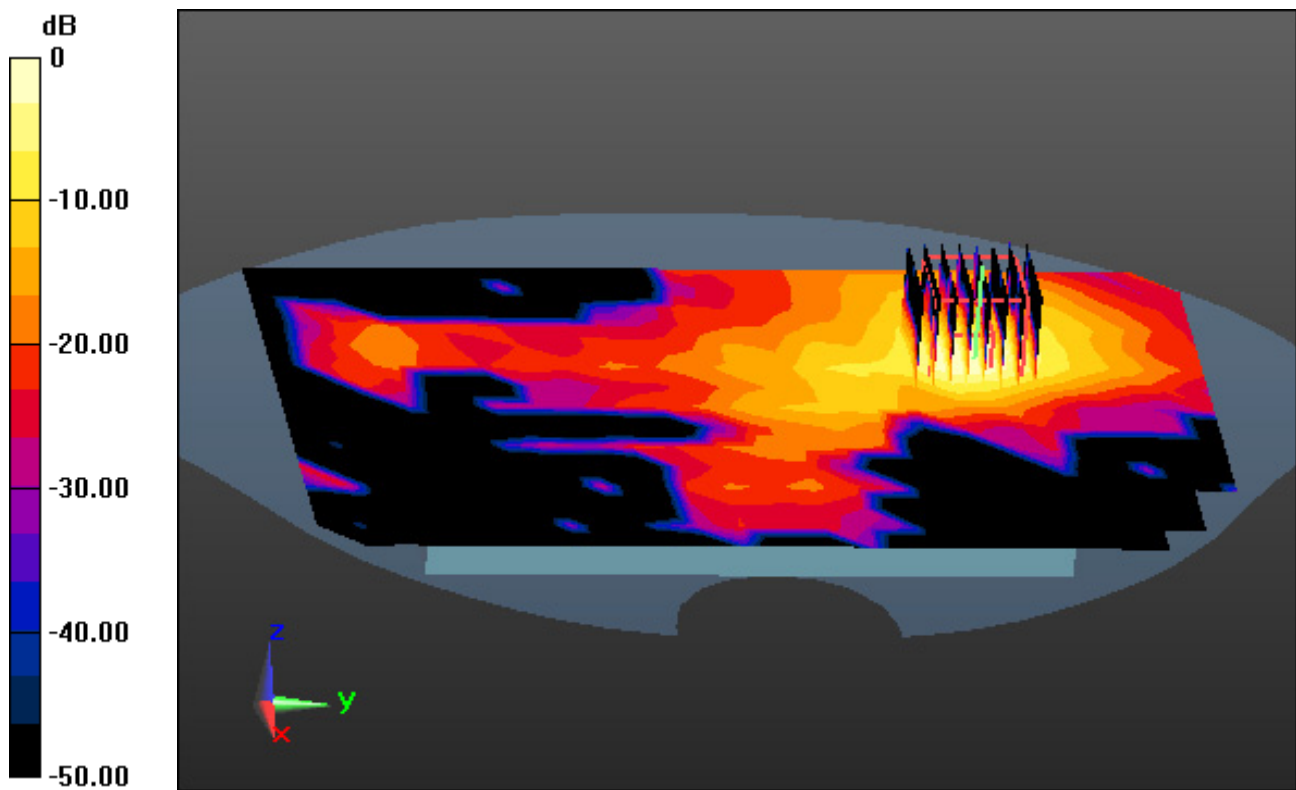
**Area Scan (15x23x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

**Zoom Scan (8x8x7)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=1.4\text{mm}$ , Graded Ratio: 1.4

Power Drift = 0.08 dB

Peak SAR (extrapolated) = 1.11 W/kg

**SAR(1 g) = 0.311 W/kg; SAR(10 g) = 0.106 W/kg**



0 dB = 0.697 W/kg

## DT&C Co., Ltd.

**DUT: DB05; Type: Bar**

Communication System: UID 0, W-LAN\_5600 (0); Frequency: 5530 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5530$  MHz;  $\sigma = 4.987$  S/m;  $\epsilon_r = 36.944$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3933; ConvF(4.95, 4.95, 4.95); Calibrated: 9/27/2019; Electronics: DAE4 Sn1391

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Phantom: SAM with CRP\_2016\_07\_22\_middle; Type: QD000P40CD; Serial: TP:1786

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-10-11; Ambient Temp: 21.3; Tissue Temp: 22.5

**1 cm space from Body, Rear, WLAN(802.11ac VHT80) Ch. 106, Ant Internal**

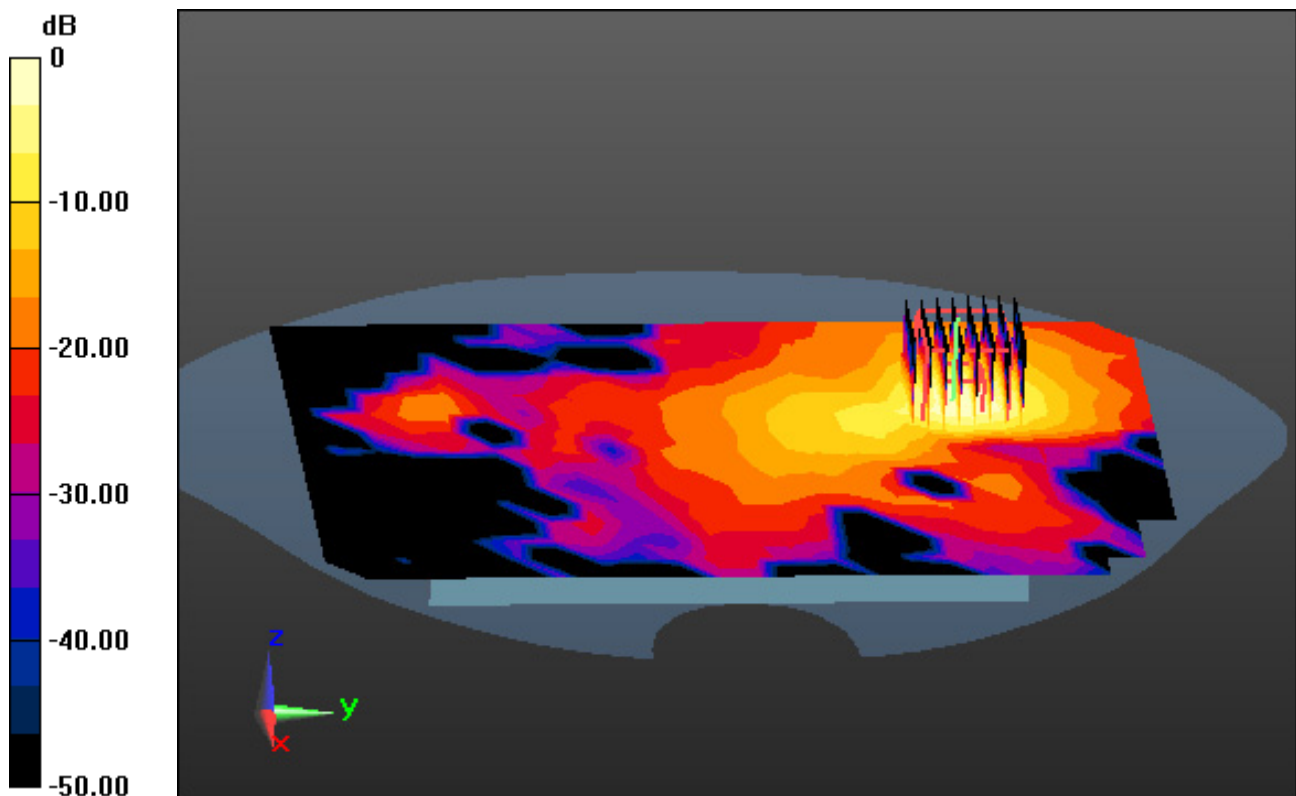
**Area Scan (15x23x1):** Measurement grid: dx=10mm, dy=10mm

**Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm, Graded Ratio:1.4

Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.70 W/kg

**SAR(1 g) = 0.404 W/kg; SAR(10 g) = 0.143 W/kg**



0 dB = 1.11 W/kg

## DT&C Co., Ltd.

**DUT: DB05; Type: Bar**

Communication System: UID 0, Bluetooth (0); Frequency: 2441 MHz; Duty Cycle: 1:1.302

Medium parameters used:  $f = 2441$  MHz;  $\sigma = 1.799$  S/m;  $\epsilon_r = 37.956$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

### **DASY5 Configuration:**

Probe: EX3DV4 - SN3866; ConvF(7.24, 7.24, 7.24); Calibrated: 5/28/2019; Electronics: DAE4 Sn1394

Sensor-Surface: 2mm (Mechanical Surface Detection)

Phantom: SAM-twin right\_2013\_09\_24; Type: QD000P40CD; Serial: TP:1782

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-10-15; Ambient Temp: 20.2; Tissue Temp: 20.4

**1 cm space from Body, Rear, Bluetooth 1Mbps Ch. 39, Ant Internal**

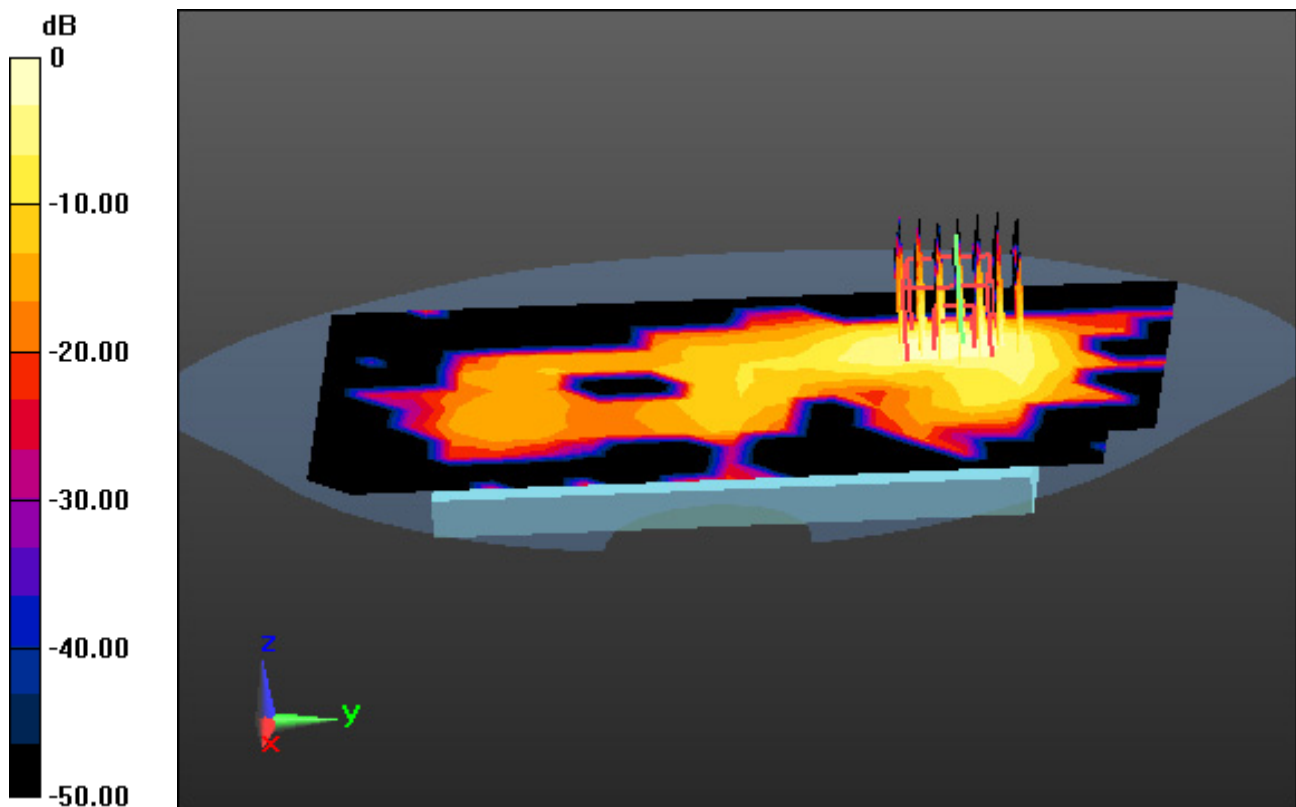
**Area Scan (12x19x1):** Measurement grid: dx=12mm, dy=12mm

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

Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.0910 W/kg

**SAR(1 g) = 0.040 W/kg; SAR(10 g) = 0.016 W/kg**



0 dB = 0.0625 W/kg