

## 21\_Bluetooth\_DH5 1Mbps\_Top Side\_10mm\_Ch0

Communication System: UID 0, Bluetooth (0); Frequency: 2402 MHz; Duty Cycle: 1:1.302  
 Medium: HSL\_2450\_220128 Medium parameters used:  $f = 2402$  MHz;  $\sigma = 1.77$  S/m;  $\epsilon_r = 39.822$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Ambient Temperature : 23.3 °C; Liquid Temperature : 22.1 °C

### DASY5 Configuration:

- Probe: EX3DV4 - SN7576; ConvF(7.67, 7.67, 7.67); Calibrated: 2021/4/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1437; Calibrated: 2021/10/26
- Phantom: Twin-SAM V8.0 (Left); Type: QD 000 P41 AA; Serial: 2035
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Ch0/Area Scan (51x91x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.132 W/kg

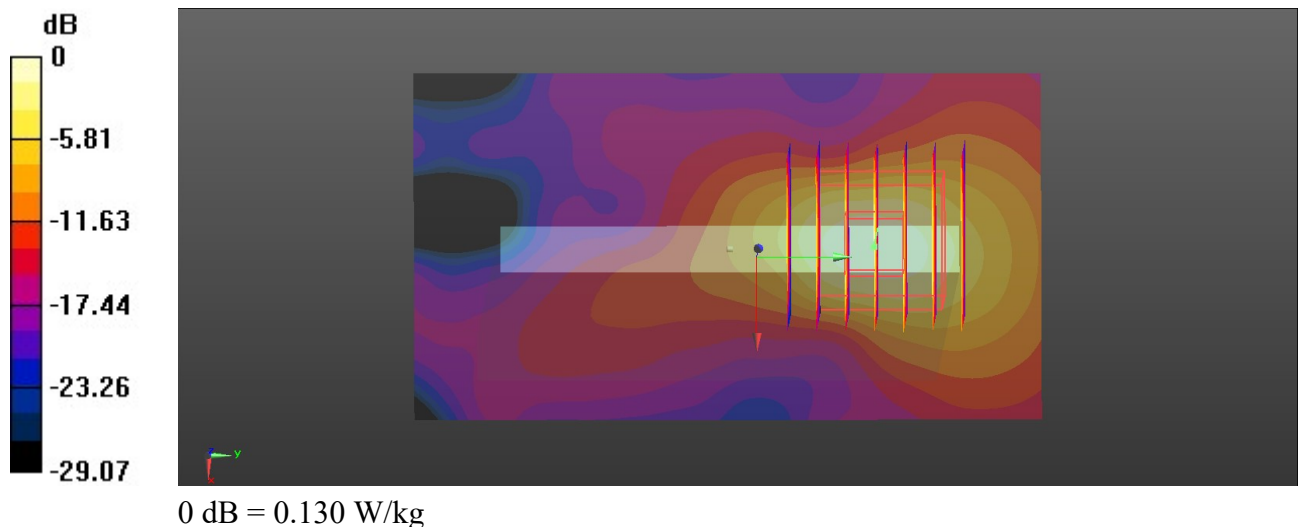
**Ch0/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.841 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.161 W/kg

**SAR(1 g) = 0.074 W/kg; SAR(10 g) = 0.031 W/kg**

Maximum value of SAR (measured) = 0.130 W/kg



## 22\_LTE Band 12\_10M\_QPSK\_1RB\_25Offset\_Back\_15mm\_Ch23095

Communication System: UID 0, LTE (0); Frequency: 707.5 MHz; Duty Cycle: 1:1

Medium: HSL\_750\_220118 Medium parameters used:  $f = 707.5$  MHz;  $\sigma = 0.864$  S/m;  $\epsilon_r = 42.44$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.6 °C; Liquid Temperature : 22.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7576; ConvF(10.47, 10.47, 10.47); Calibrated: 2021/4/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1437; Calibrated: 2021/10/26
- Phantom: Twin-SAM V8.0 (Left); Type: QD 000 P41 AA; Serial: 2035
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Ch23095/Area Scan (71x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.397 W/kg

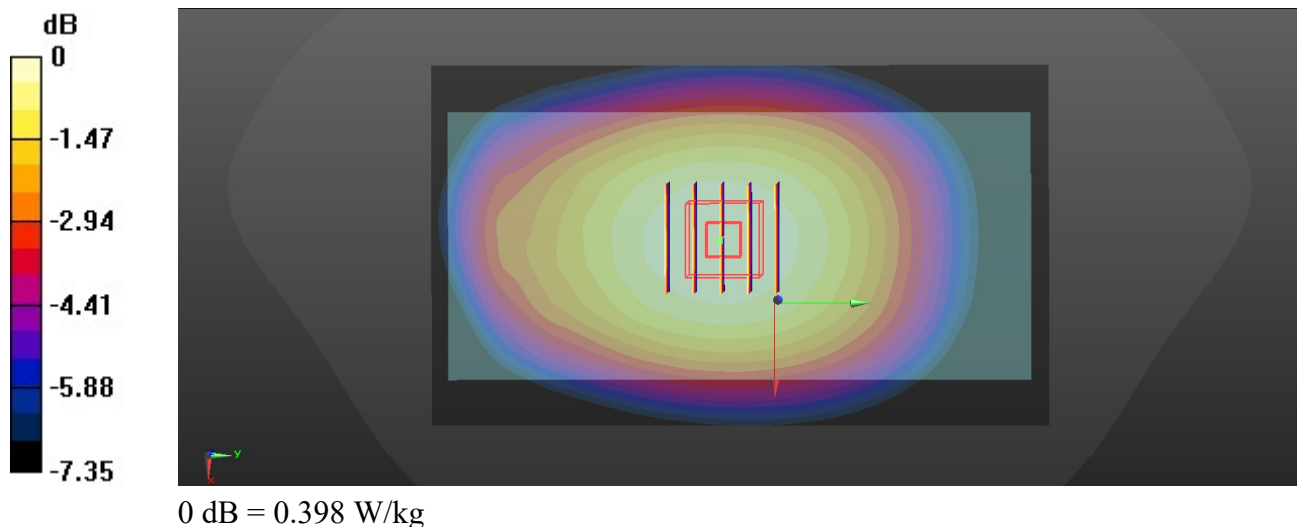
**Ch23095/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.53 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.425 W/kg

**SAR(1 g) = 0.337 W/kg; SAR(10 g) = 0.259 W/kg**

Maximum value of SAR (measured) = 0.398 W/kg



## 23\_LTE Band 14\_10M\_QPSK\_1RB\_25Offset\_Back\_15mm\_Ch23330

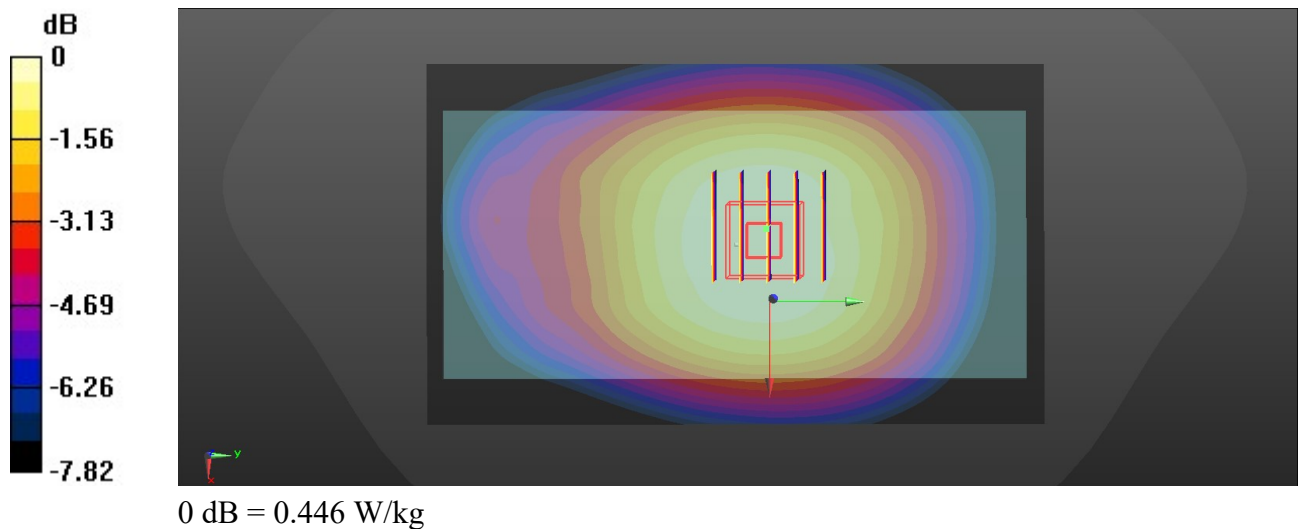
Communication System: UID 0, LTE (0); Frequency: 793 MHz; Duty Cycle: 1:1  
 Medium: HSL\_750\_220118 Medium parameters used:  $f = 793 \text{ MHz}$ ;  $\sigma = 0.918 \text{ S/m}$ ;  $\epsilon_r = 40.65$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Ambient Temperature : 23.6 °C; Liquid Temperature : 22.3 °C

### DASY5 Configuration:

- Probe: EX3DV4 - SN7576; ConvF(10.47, 10.47, 10.47); Calibrated: 2021/4/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1437; Calibrated: 2021/10/26
- Phantom: Twin-SAM V8.0 (Left); Type: QD 000 P41 AA; Serial: 2035
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Ch23330/Area Scan (71x121x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$   
 Maximum value of SAR (interpolated) = 0.461 W/kg

**Ch23330/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 24.44 V/m; Power Drift = 0.02 dB  
 Peak SAR (extrapolated) = 0.477 W/kg  
**SAR(1 g) = 0.378 W/kg; SAR(10 g) = 0.289 W/kg**  
 Maximum value of SAR (measured) = 0.446 W/kg



## 24\_LTE Band 5\_10M\_QPSK\_1RB\_25Offset\_Back\_15mm\_Ch20525

Communication System: UID 0, LTE (0); Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium: HSL\_835\_220119 Medium parameters used:  $f = 836.5$  MHz;  $\sigma = 0.917$  S/m;  $\epsilon_r = 41.516$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.7 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7576; ConvF(10.19, 10.19, 10.19); Calibrated: 2021/4/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1437; Calibrated: 2021/10/26
- Phantom: Twin-SAM V8.0 (Left); Type: QD 000 P41 AA; Serial: 2035
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Ch20525/Area Scan (71x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.471 W/kg

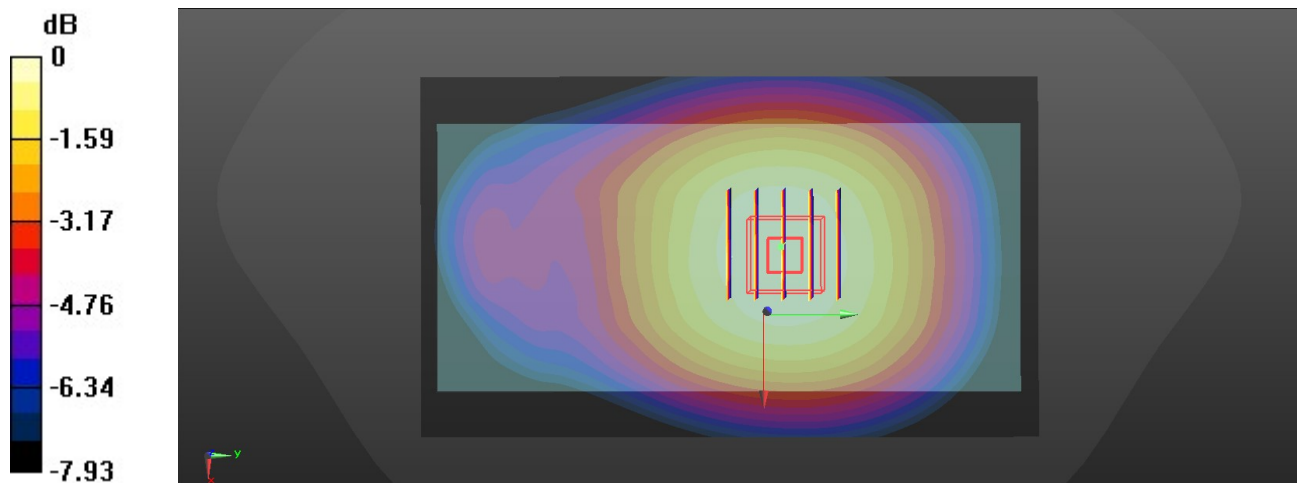
**Ch20525/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.72 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.508 W/kg

**SAR(1 g) = 0.393 W/kg; SAR(10 g) = 0.299 W/kg**

Maximum value of SAR (measured) = 0.470 W/kg



0 dB = 0.470 W/kg

## 25\_LTE Band 4\_20M\_QPSK\_1RB\_49Offset\_Back\_15mm\_Ch20175

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

Medium: HSL\_1750\_220125 Medium parameters used:  $f = 1733$  MHz;  $\sigma = 1.339$  S/m;  $\epsilon_r = 38.475$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7576; ConvF(8.73, 8.73, 8.73); Calibrated: 2021/4/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1437; Calibrated: 2021/10/26
- Phantom: Twin-SAM V8.0 (Left); Type: QD 000 P41 AA; Serial: 2035
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Ch20175/Area Scan (71x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.862 W/kg

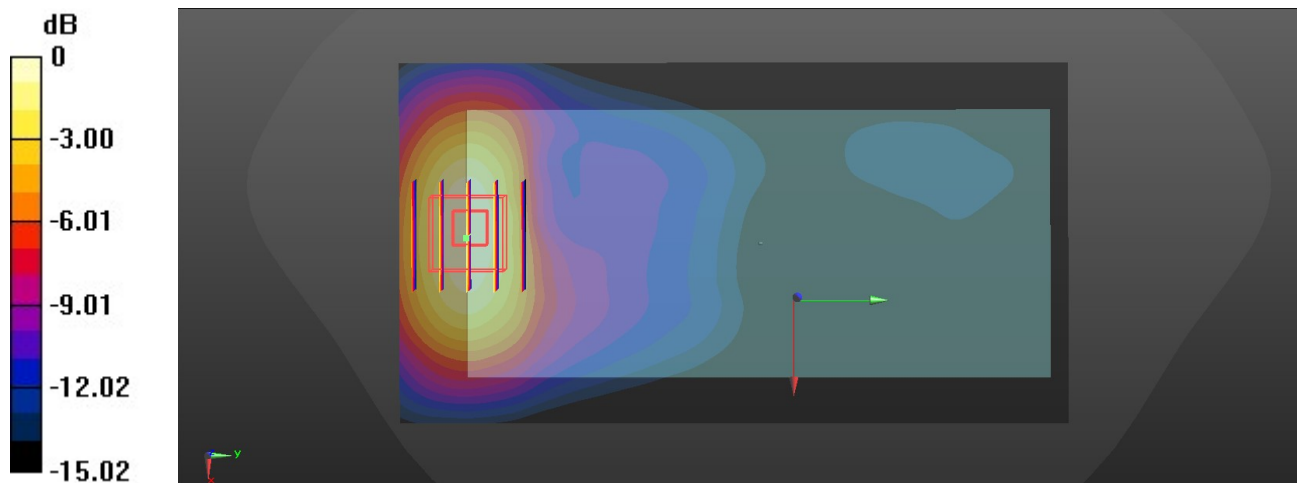
**Ch20175/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.677 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.987 W/kg

**SAR(1 g) = 0.546 W/kg; SAR(10 g) = 0.310 W/kg**

Maximum value of SAR (measured) = 0.850 W/kg



0 dB = 0.850 W/kg

## 26\_LTE Band 2\_20M\_QPSK\_1RB\_49Offset\_Back\_15mm\_Ch18900

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

Medium: HSL\_1900\_220126 Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.397$  S/m;  $\epsilon_r = 40.608$ ;  $\rho = 1000$  kg/m<sup>3</sup>

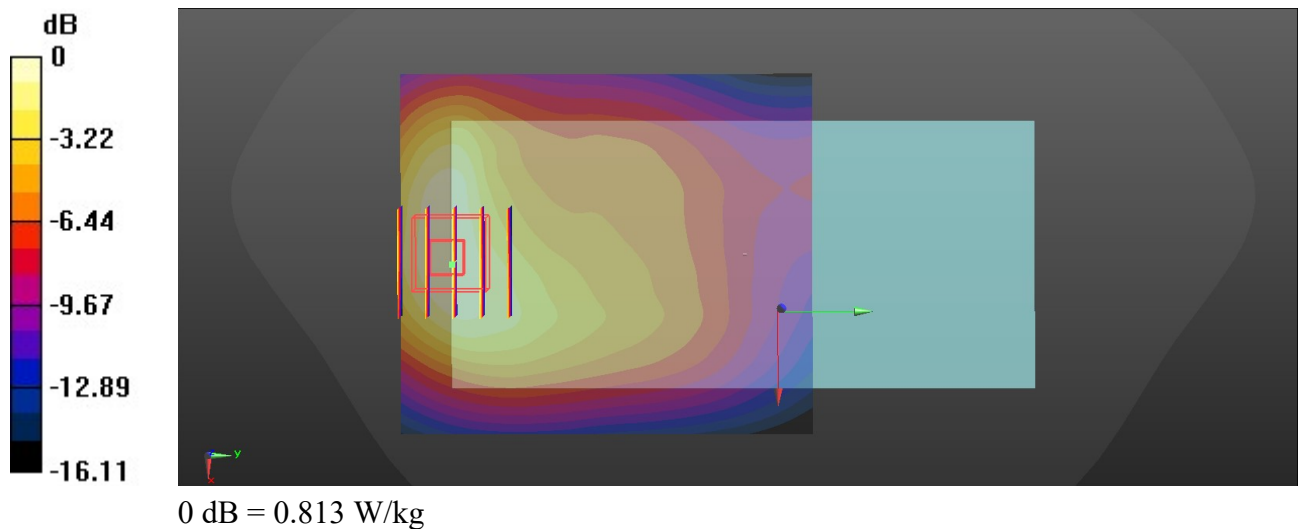
Ambient Temperature : 23.7 °C; Liquid Temperature : 22.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7576; ConvF(8.33, 8.33, 8.33); Calibrated: 2021/4/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1437; Calibrated: 2021/10/26
- Phantom: Twin-SAM V8.0 (Left); Type: QD 000 P41 AA; Serial: 2035
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Ch18900/Area Scan (71x81x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Maximum value of SAR (interpolated) = 0.829 W/kg

**Ch18900/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
 Reference Value = 9.774 V/m; Power Drift = 0.04 dB  
 Peak SAR (extrapolated) = 0.945 W/kg  
**SAR(1 g) = 0.576 W/kg; SAR(10 g) = 0.345 W/kg**  
 Maximum value of SAR (measured) = 0.813 W/kg



## 27\_LTE Band 30\_10M\_QPSK\_1RB\_25Offset\_Back\_15mm\_Ch27710

Communication System: UID 0, LTE (0); Frequency: 2310 MHz; Duty Cycle: 1:1

Medium: HSL\_2300\_220127 Medium parameters used:  $f = 2310$  MHz;  $\sigma = 1.743$  S/m;  $\epsilon_r = 40.415$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.4 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7576; ConvF(7.91, 7.91, 7.91); Calibrated: 2021/4/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1437; Calibrated: 2021/10/26
- Phantom: Twin-SAM V8.0 (Left); Type: QD 000 P41 AA; Serial: 2035
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Ch27710/Area Scan (91x101x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.868 W/kg

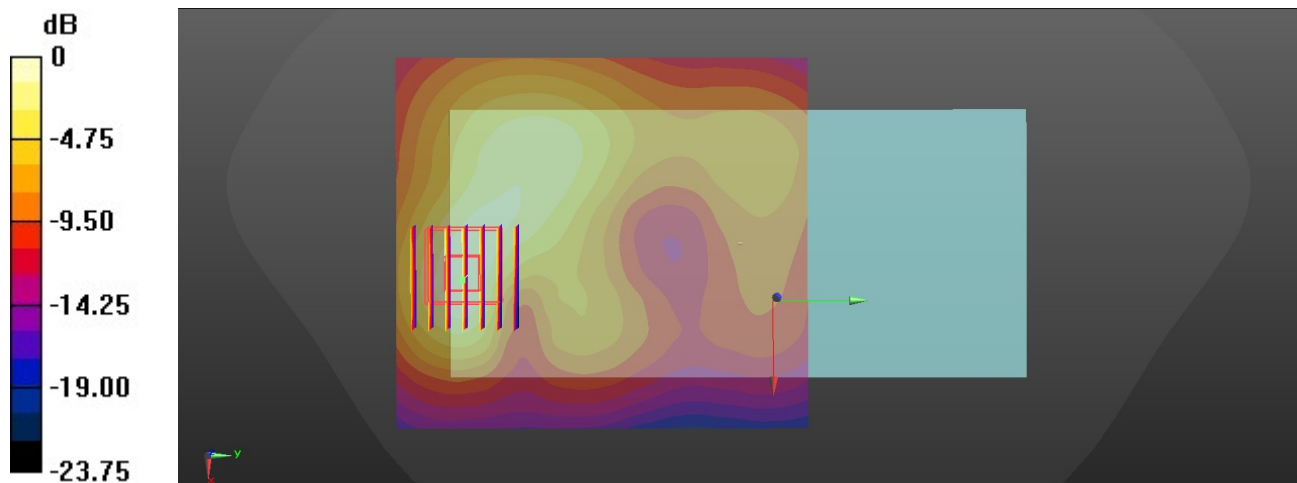
**Ch27710/Zoom Scan (7x7x8)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 21.56 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.02 W/kg

**SAR(1 g) = 0.540 W/kg; SAR(10 g) = 0.276 W/kg**

Maximum value of SAR (measured) = 0.838 W/kg



0 dB = 0.838 W/kg

## 28\_WLAN2.4GHz\_802.11b 1Mbps\_Back\_15mm\_Ch6

Communication System: UID 0, WIFI (0); Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: HSL\_2450\_220128 Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.811$  S/m;  $\epsilon_r = 39.709$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.1 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7576; ConvF(7.67, 7.67, 7.67); Calibrated: 2021/4/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1437; Calibrated: 2021/10/26
- Phantom: Twin-SAM V8.0 (Left); Type: QD 000 P41 AA; Serial: 2035
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Ch6/Area Scan (91x91x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.585 W/kg

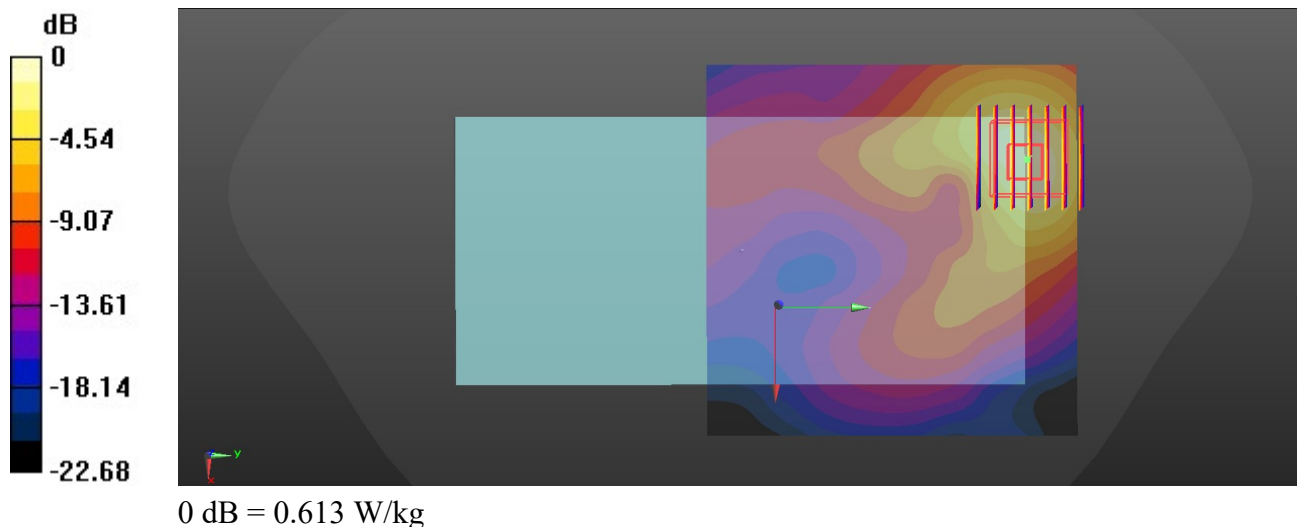
**Ch6/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.909 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.735 W/kg

**SAR(1 g) = 0.397 W/kg; SAR(10 g) = 0.199 W/kg**

Maximum value of SAR (measured) = 0.613 W/kg





## 29\_WLAN5GHz\_802.11n-HT40 MCS0\_Back\_15mm\_Ch54

Communication System: UID 0, WIFI (0); Frequency: 5270 MHz; Duty Cycle: 1:1

Medium: HSL\_5250\_220122 Medium parameters used:  $f = 5270$  MHz;  $\sigma = 4.653$  S/m;  $\epsilon_r = 37.017$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C; Liquid Temperature : 22.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7576; ConvF(5.17, 5.17, 5.17); Calibrated: 2021/4/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1437; Calibrated: 2021/10/26
- Phantom: Twin-SAM V8.0 (Left); Type: QD 000 P41 AA; Serial: 2035
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Ch54/Area Scan (101x111x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.755 W/kg

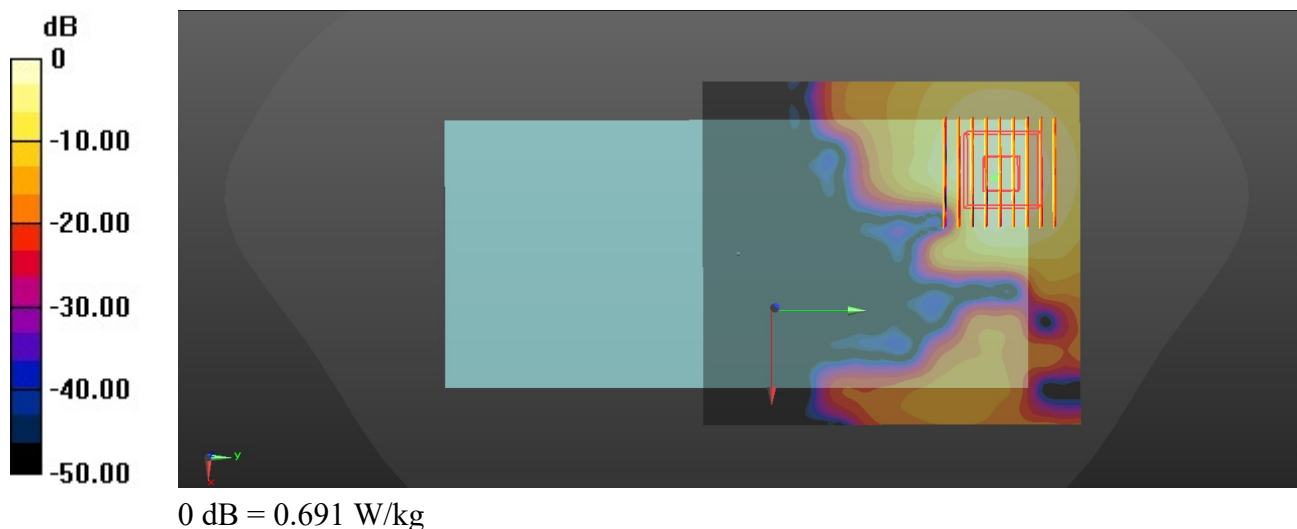
**Ch54/Zoom Scan (9x9x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 0.5080 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.02 W/kg

**SAR(1 g) = 0.330 W/kg; SAR(10 g) = 0.133 W/kg**

Maximum value of SAR (measured) = 0.691 W/kg



### 30\_WLAN5GHz\_802.11n-HT40 MCS0\_Back\_15mm\_Ch110

Communication System: UID 0, WIFI (0); Frequency: 5550 MHz; Duty Cycle: 1:1

Medium: HSL\_5600\_220124 Medium parameters used:  $f = 5550$  MHz;  $\sigma = 4.975$  S/m;  $\epsilon_r = 36.601$ ;  $\rho = 1000$  kg/m<sup>3</sup>

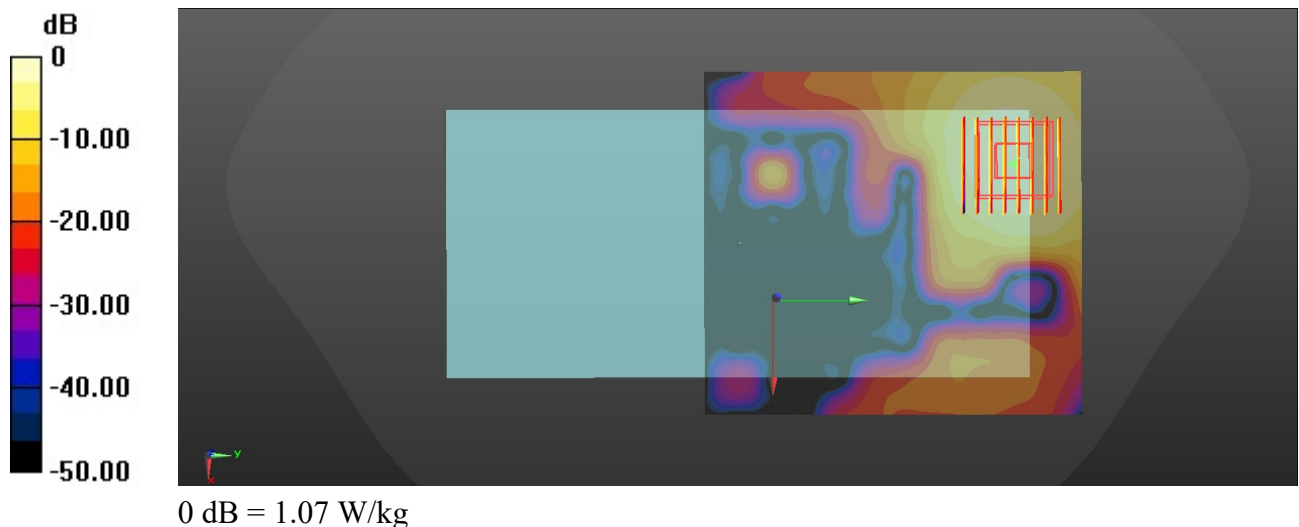
Ambient Temperature : 23.3 °C; Liquid Temperature : 22.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7576; ConvF(4.6, 4.6, 4.6); Calibrated: 2021/4/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1437; Calibrated: 2021/10/26
- Phantom: Twin-SAM V8.0 (Left); Type: QD 000 P41 AA; Serial: 2035
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Ch110/Area Scan (101x111x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm  
Maximum value of SAR (interpolated) = 1.08 W/kg

**Ch110/Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm  
Reference Value = 0 V/m; Power Drift = -0.08 dB  
Peak SAR (extrapolated) = 1.65 W/kg  
**SAR(1 g) = 0.495 W/kg; SAR(10 g) = 0.196 W/kg**  
Maximum value of SAR (measured) = 1.07 W/kg



### 31\_WLAN5GHz\_802.11n-HT40 MCS0\_Back\_15mm\_Ch151

Communication System: UID 0, WIFI (0); Frequency: 5755 MHz; Duty Cycle: 1:1

Medium: HSL\_5750\_220123 Medium parameters used:  $f = 5755$  MHz;  $\sigma = 5.21$  S/m;  $\epsilon_r = 36.247$ ;  $\rho = 1000$  kg/m<sup>3</sup>

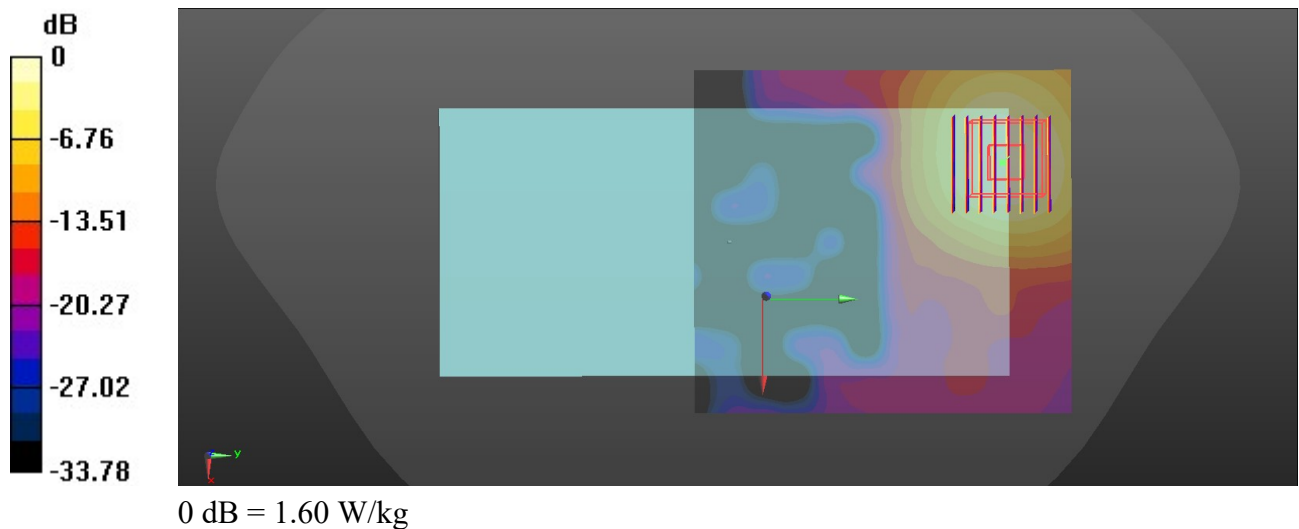
Ambient Temperature : 23.7 °C; Liquid Temperature : 22.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7576; ConvF(4.75, 4.75, 4.75); Calibrated: 2021/4/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1437; Calibrated: 2021/10/26
- Phantom: Twin-SAM V8.0 (Left); Type: QD 000 P41 AA; Serial: 2035
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Ch151/Area Scan (101x111x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm  
 Maximum value of SAR (interpolated) = 1.66 W/kg

**Ch151/Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm  
 Reference Value = 0.9700 V/m; Power Drift = 0.11 dB  
 Peak SAR (extrapolated) = 2.53 W/kg  
**SAR(1 g) = 0.725 W/kg; SAR(10 g) = 0.290 W/kg**  
 Maximum value of SAR (measured) = 1.60 W/kg



### 32\_Bluetooth\_DH5 1Mbps\_Back\_15mm\_Ch0

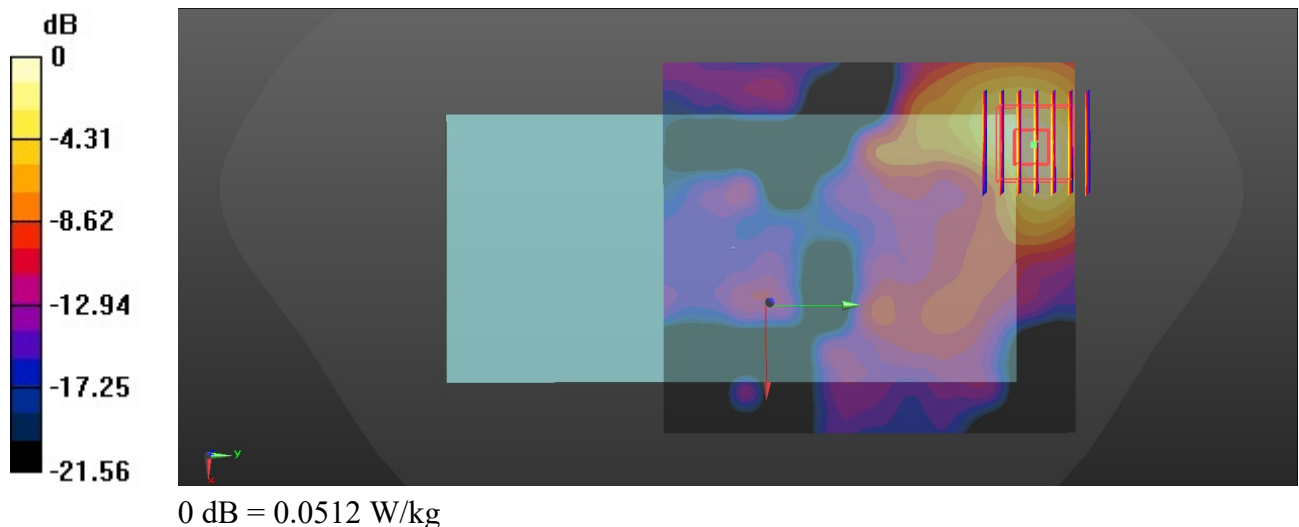
Communication System: UID 0, Bluetooth (0); Frequency: 2402 MHz; Duty Cycle: 1:1.302  
 Medium: HSL\_2450\_220128 Medium parameters used:  $f = 2402$  MHz;  $\sigma = 1.77$  S/m;  $\epsilon_r = 39.822$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Ambient Temperature : 23.3 °C; Liquid Temperature : 22.1 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7576; ConvF(7.67, 7.67, 7.67); Calibrated: 2021/4/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1437; Calibrated: 2021/10/26
- Phantom: Twin-SAM V8.0 (Left); Type: QD 000 P41 AA; Serial: 2035
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Ch0/Area Scan (91x101x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm  
 Maximum value of SAR (interpolated) = 0.0504 W/kg

**Ch0/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
 Reference Value = 1.018 V/m; Power Drift = 0.06 dB  
 Peak SAR (extrapolated) = 0.0620 W/kg  
**SAR(1 g) = 0.033 W/kg; SAR(10 g) = 0.016 W/kg**  
 Maximum value of SAR (measured) = 0.0512 W/kg



### 33\_LTE Band 4\_20M\_QPSK\_50RB\_24Offset\_Bottom Side\_0mm\_Ch20175

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

Medium: HSL\_1750\_220125 Medium parameters used:  $f = 1733$  MHz;  $\sigma = 1.339$  S/m;  $\epsilon_r = 38.475$ ;  $\rho = 1000$  kg/m<sup>3</sup>

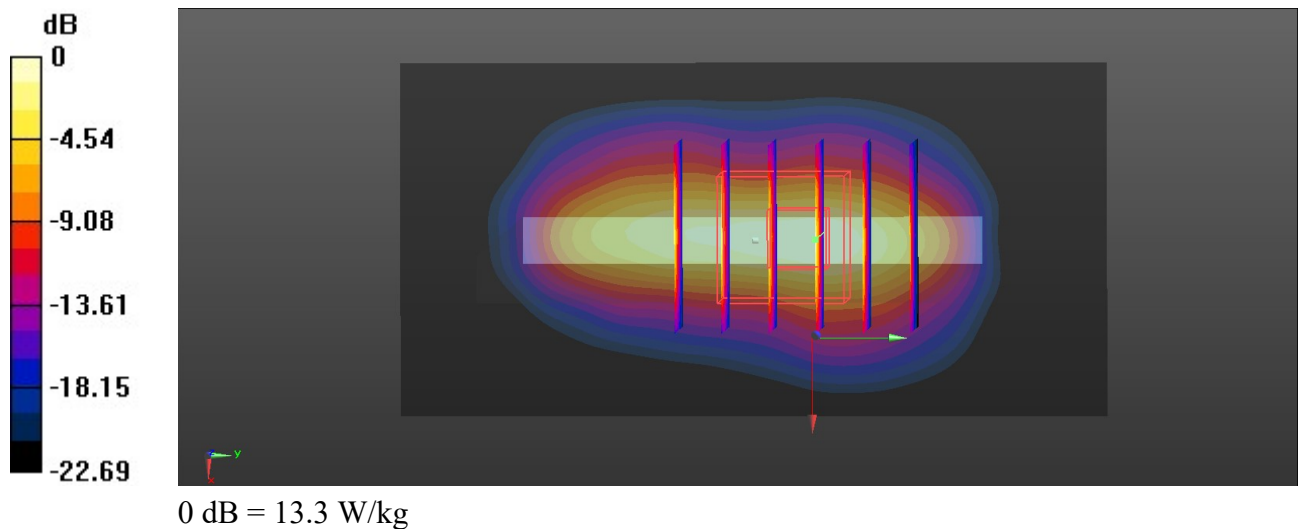
Ambient Temperature : 23.3 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7576; ConvF(8.73, 8.73, 8.73); Calibrated: 2021/4/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1437; Calibrated: 2021/10/26
- Phantom: Twin-SAM V8.0 (Left); Type: QD 000 P41 AA; Serial: 2035
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Ch20175/Area Scan (41x81x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Maximum value of SAR (interpolated) = 12.7 W/kg

**Ch20175/Zoom Scan (5x6x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
 Reference Value = 94.23 V/m; Power Drift = -0.03 dB  
 Peak SAR (extrapolated) = 16.5 W/kg  
**SAR(1 g) = 6.48 W/kg; SAR(10 g) = 2.75 W/kg**  
 Maximum value of SAR (measured) = 13.3 W/kg



### 34\_LTE Band 2\_20M\_QPSK\_1RB\_49Offset\_Bottom Side\_0mm\_Ch18700

Communication System: UID 0, LTE (0); Frequency: 1860 MHz; Duty Cycle: 1:1

Medium: HSL\_1900\_220126 Medium parameters used:  $f = 1860$  MHz;  $\sigma = 1.378$  S/m;  $\epsilon_r = 40.666$ ;  $\rho = 1000$  kg/m<sup>3</sup>

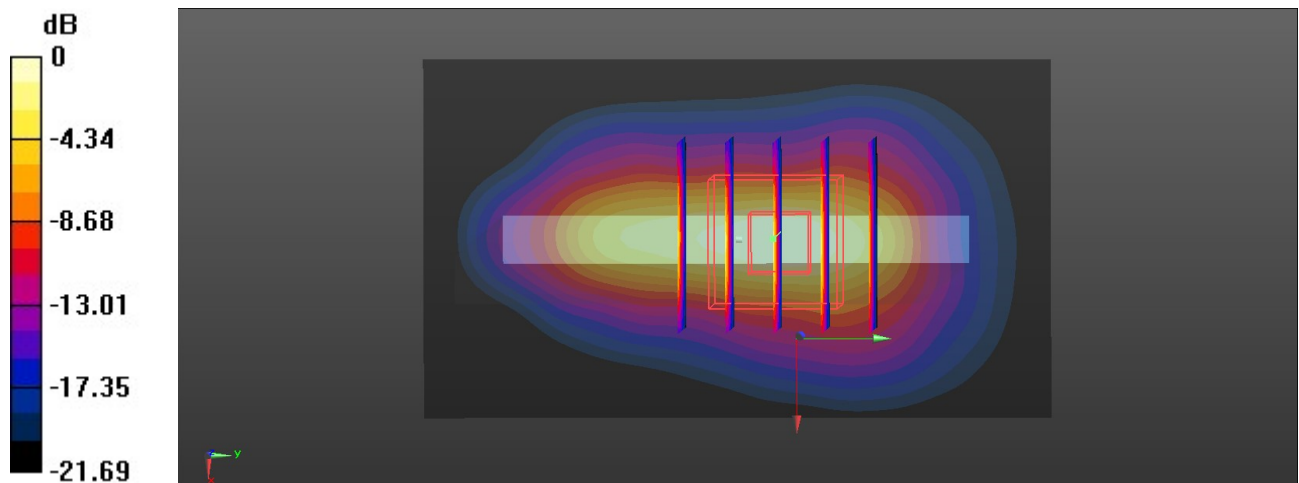
Ambient Temperature : 23.7 °C; Liquid Temperature : 22.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7576; ConvF(8.33, 8.33, 8.33); Calibrated: 2021/4/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1437; Calibrated: 2021/10/26
- Phantom: Twin-SAM V8.0 (Left); Type: QD 000 P41 AA; Serial: 2035
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Ch18700/Area Scan (41x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Maximum value of SAR (interpolated) = 14.1 W/kg

**Ch18700/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
 Reference Value = 20.85 V/m; Power Drift = 0.02 dB  
 Peak SAR (extrapolated) = 16.8 W/kg  
**SAR(1 g) = 6.38 W/kg; SAR(10 g) = 2.63 W/kg**  
 Maximum value of SAR (measured) = 13.7 W/kg



0 dB = 13.7 W/kg

### 35\_LTE Band 30\_10M\_QPSK\_25RB\_12Offset\_Bottom Side\_0mm\_Ch27710

Communication System: UID 0, LTE (0); Frequency: 2310 MHz; Duty Cycle: 1:1

Medium: HSL\_2300\_220127 Medium parameters used:  $f = 2310$  MHz;  $\sigma = 1.743$  S/m;  $\epsilon_r = 40.415$ ;  $\rho = 1000$  kg/m<sup>3</sup>

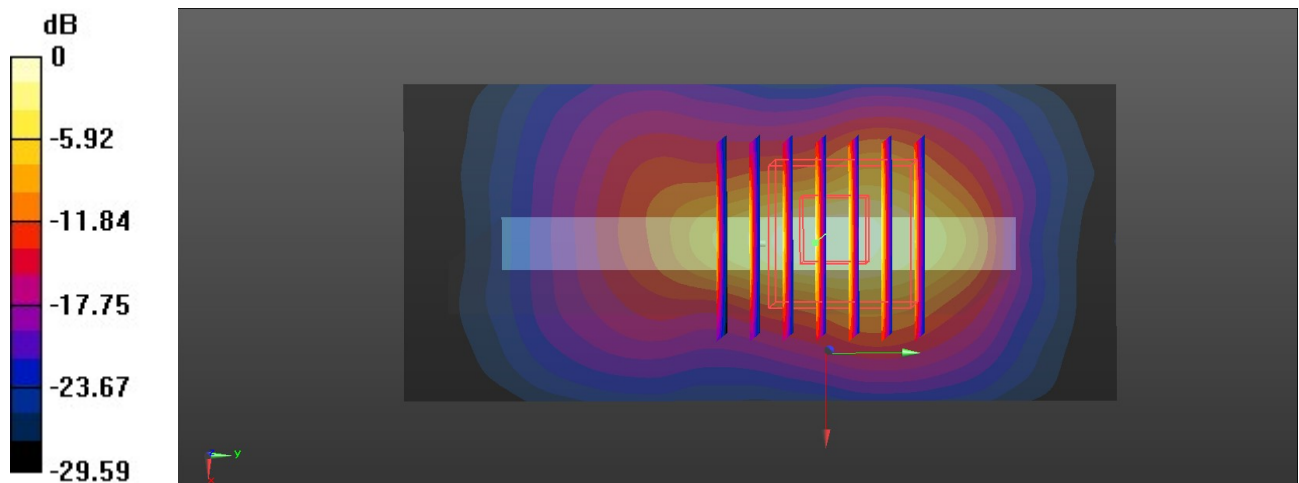
Ambient Temperature : 23.4 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7576; ConvF(7.91, 7.91, 7.91); Calibrated: 2021/4/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1437; Calibrated: 2021/10/26
- Phantom: Twin-SAM V8.0 (Left); Type: QD 000 P41 AA; Serial: 2035
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Ch27710/Area Scan (41x91x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm  
 Maximum value of SAR (interpolated) = 16.7 W/kg

**Ch27710/Zoom Scan (7x7x8)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
 Reference Value = 13.69 V/m; Power Drift = 0.05 dB  
 Peak SAR (extrapolated) = 28.5 W/kg  
**SAR(1 g) = 6.96 W/kg; SAR(10 g) = 2.48 W/kg**  
 Maximum value of SAR (measured) = 16.6 W/kg



0 dB = 16.6 W/kg

### 36\_WLAN5GHz\_802.11n-HT40 MCS0\_Back\_0mm\_Ch54

Communication System: UID 0, WIFI (0); Frequency: 5270 MHz; Duty Cycle: 1:1

Medium: HSL\_5250\_220122 Medium parameters used:  $f = 5270$  MHz;  $\sigma = 4.653$  S/m;  $\epsilon_r = 37.017$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C; Liquid Temperature : 22.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7576; ConvF(5.17, 5.17, 5.17); Calibrated: 2021/4/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1437; Calibrated: 2021/10/26
- Phantom: Twin-SAM V8.0 (Left); Type: QD 000 P41 AA; Serial: 2035
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Ch54/Area Scan (91x111x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 6.34 W/kg

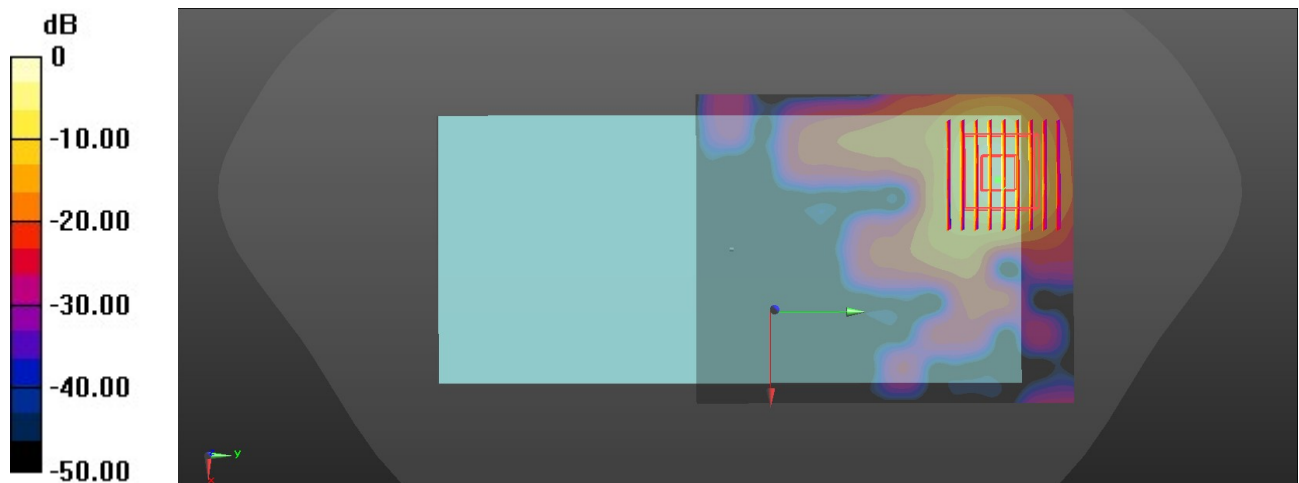
**Ch54/Zoom Scan (9x9x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 0 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 7.64 W/kg

**SAR(1 g) = 2.02 W/kg; SAR(10 g) = 0.600 W/kg**

Maximum value of SAR (measured) = 4.73 W/kg



0 dB = 4.73 W/kg



### 37\_WLAN5GHz\_802.11n-HT40 MCS0\_Back\_0mm\_Ch110

Communication System: UID 0, WIFI (0); Frequency: 5550 MHz; Duty Cycle: 1:1

Medium: HSL\_5600\_220124 Medium parameters used:  $f = 5550$  MHz;  $\sigma = 4.975$  S/m;  $\epsilon_r = 36.601$ ;  $\rho = 1000$  kg/m<sup>3</sup>

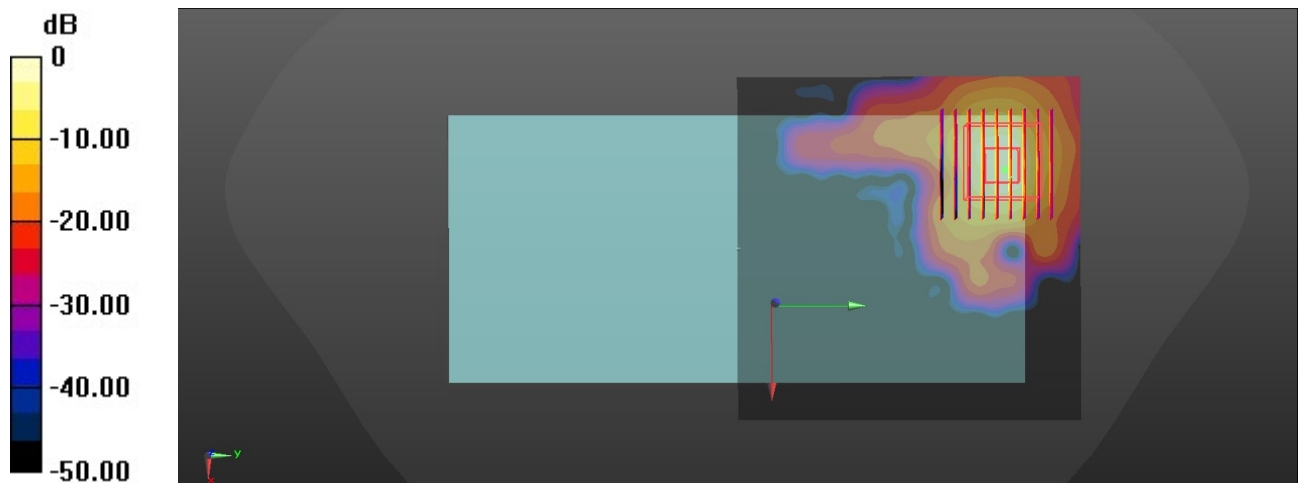
Ambient Temperature : 23.3 °C; Liquid Temperature : 22.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7576; ConvF(4.6, 4.6, 4.6); Calibrated: 2021/4/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1437; Calibrated: 2021/10/26
- Phantom: Twin-SAM V8.0 (Left); Type: QD 000 P41 AA; Serial: 2035
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Ch110/Area Scan (101x101x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm  
 Maximum value of SAR (interpolated) = 7.87 W/kg

**Ch110/Zoom Scan (9x9x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm  
 Reference Value = 0 V/m; Power Drift = -0.14 dB  
 Peak SAR (extrapolated) = 11.8 W/kg  
**SAR(1 g) = 2.53 W/kg; SAR(10 g) = 0.748 W/kg**  
 Maximum value of SAR (measured) = 6.78 W/kg



0 dB = 6.78 W/kg



**Appendix C. DASYS Calibration Certificate**

The DASYS calibration certificates are shown as follows.



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中国认可  
国际互认  
校准  
CALIBRATION  
CNAS L0570

Add: No.51 Xueyuan Road, Haidian District, Beijing, 100191, China  
Tel: +86-10-62304633-2079 Fax: +86-10-62304633-2504  
E-mail: cttl@chinattl.com http://www.chinattl.cn

Client **Sporton**

Certificate No: **Z19-60081**

## CALIBRATION CERTIFICATE

Object **D750V3 - SN: 1087**

Calibration Procedure(s) **FF-Z11-003-01**  
**Calibration Procedures for dipole validation kits**

Calibration date: **March 27, 2019**

This calibration Certificate documents the traceability to national standards, which realize the physical units of measurements(SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature(22±3)°C and humidity<70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration
Power Meter NRP2	106277	20-Aug-18 (CTTL, No.J18X06862)	Aug-19
Power sensor NRP8S	104291	20-Aug-18 (CTTL, No.J18X06862)	Aug-19
Reference Probe EX3DV4	SN 3617	31-Jan-19(SPEAG,No.EX3-3617_Jan19)	Jan-20
DAE4	SN 1331	06-Feb-19(SPEAG,No.DAE4-1331_Feb19)	Feb-20
Secondary Standards	ID #	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration
Signal Generator E4438C	MY49071430	23-Jan-19 (CTTL, No.J19X00336)	Jan-20
NetworkAnalyzer E5071C	MY46110673	24-Jan-19 (CTTL, No.J19X00547)	Jan-20

	Name	Function	Signature
Calibrated by:	Zhao Jing	SAR Test Engineer	
Reviewed by:	Lin Hao	SAR Test Engineer	
Approved by:	Qi Dianyuan	SAR Project Leader	

Issued: March 29, 2019

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.



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### Glossary:

TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM <sub>x,y,z</sub>
N/A	not applicable or not measured

### Calibration is Performed According to the Following Standards:

- IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- IEC 62209-1, "Measurement procedure for assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices- Part 1: Device used next to the ear (Frequency range of 300MHz to 6GHz)", July 2016
- IEC 62209-2, "Procedure to measure the Specific Absorption Rate (SAR) For wireless communication devices used in close proximity to the human body (frequency range of 30MHz to 6GHz)", March 2010
- KDB865664, SAR Measurement Requirements for 100 MHz to 6 GHz

### Additional Documentation:

- DASY4/5 System Handbook

### Methods Applied and Interpretation of Parameters:

- Measurement Conditions:** Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL:** The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss:** These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay:** One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured:** SAR measured at the stated antenna input power.
- SAR normalized:** SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters:** The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of Measurement multiplied by the coverage factor  $k=2$ , which for a normal distribution Corresponds to a coverage probability of approximately 95%.



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 E-mail: cttl@chinattl.com http://www.chinattl.cn

### Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY52	52.10.2.1495
Extrapolation	Advanced Extrapolation	
Phantom	Triple Flat Phantom 5.1C	
Distance Dipole Center - TSL	15 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	750 MHz ± 1 MHz	

### Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	41.9	0.89 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	43.0 ± 6 %	0.90 mho/m ± 6 %
Head TSL temperature change during test	<1.0 °C	----	----

### SAR result with Head TSL

SAR averaged over 1 cm <sup>3</sup> (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	2.10 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	<b>8.36 W/kg ± 18.8 % (k=2)</b>
SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL	Condition	
SAR measured	250 mW input power	1.42 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	<b>5.65 W/kg ± 18.7 % (k=2)</b>

### Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	55.5	0.96 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	56.9 ± 6 %	0.94 mho/m ± 6 %
Body TSL temperature change during test	<1.0 °C	----	----

### SAR result with Body TSL

SAR averaged over 1 cm <sup>3</sup> (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	2.09 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	<b>8.58 W/kg ± 18.8 % (k=2)</b>
SAR averaged over 10 cm <sup>3</sup> (10 g) of Body TSL	Condition	
SAR measured	250 mW input power	1.41 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	<b>5.75 W/kg ± 18.7 % (k=2)</b>