

### P37 WLAN5G\_802.11a\_Rear Face\_1cm\_Ch157

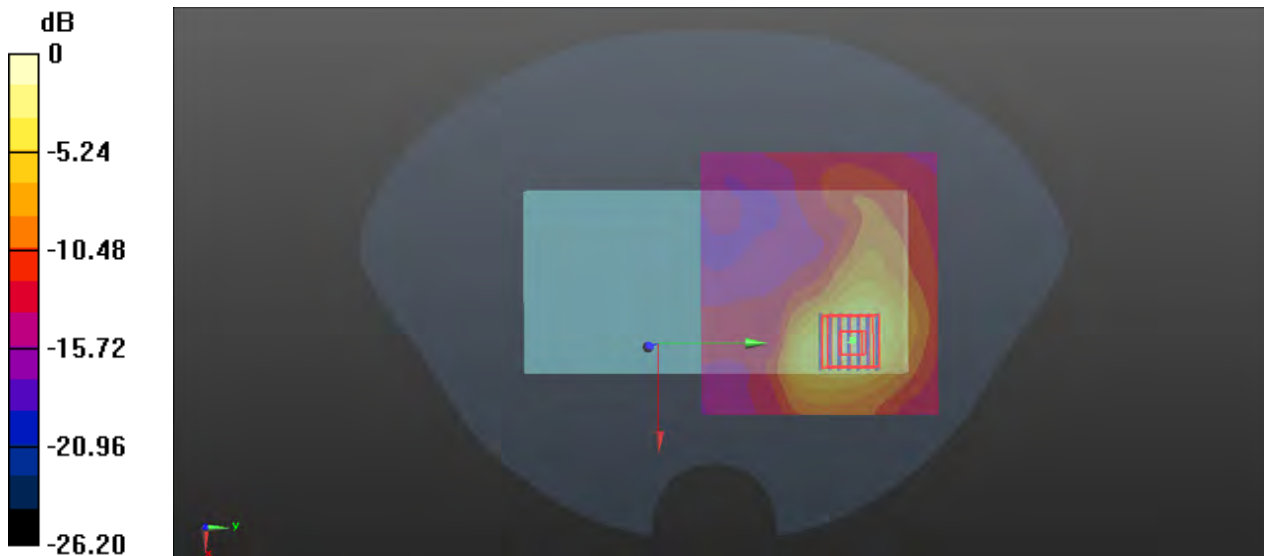
Communication System: 802.11a; Frequency: 5785 MHz; Duty Cycle: 1:1.016  
Medium: HSL5G\_0925 Medium parameters used:  $f = 5785$  MHz;  $\sigma = 5.162$  S/m;  $\epsilon_r = 34.395$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.6°C; Liquid Temperature : 22.4°C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3985; ConvF(5.05, 5.05, 5.05) @ 5785 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (111x101x1)**: Interpolated grid: dx=1.000 mm, dy=1.000 mm  
Maximum value of SAR (interpolated) = 0.928 W/kg

- **Zoom Scan (7x7x12)/Cube 0**: Measurement grid: dx=4mm, dy=4mm, dz=2mm  
Reference Value = 2.202 V/m; Power Drift = -0.02 dB  
Peak SAR (extrapolated) = 1.98 W/kg  
**SAR(1 g) = 0.485 W/kg; SAR(10 g) = 0.176 W/kg**  
Smallest distance from peaks to all points 3 dB below = 10 mm  
Ratio of SAR at M2 to SAR at M1 = 52.1%  
Maximum value of SAR (measured) = 0.934 W/kg



0 dB = 0.934 W/kg

### P38 BT\_GFSK\_Left Side\_1cm\_Ch39

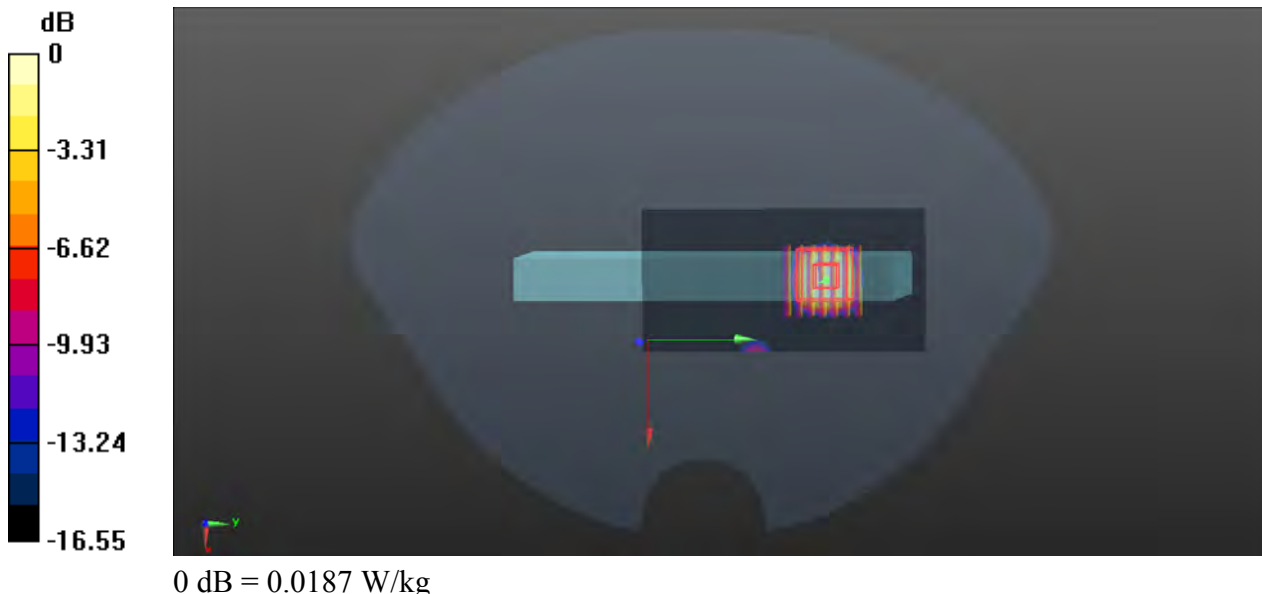
Communication System: BT; Frequency: 2441 MHz; Duty Cycle: 1:1.302  
Medium: HSL2450\_0903 Medium parameters used:  $f = 2441$  MHz;  $\sigma = 1.851$  S/m;  $\epsilon_r = 38.555$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.6°C; Liquid Temperature : 22.7°C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3985; ConvF(7.79, 7.79, 7.79) @ 2441 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (51x101x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm  
Maximum value of SAR (interpolated) = 0.0274 W/kg

- **Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 2.289 V/m; Power Drift = -0.10 dB  
Peak SAR (extrapolated) = 0.117 W/kg  
**SAR(1 g) = 0.025 W/kg; SAR(10 g) = 0.0096 W/kg**  
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid  
Ratio of SAR at M2 to SAR at M1 = 57.7%  
Maximum value of SAR (measured) = 0.0187 W/kg



**P39 GSM850\_GPRS 3Tx Slot\_Rear Face\_1cm\_Ch128**

Communication System: GPRS 3Tx-slot; Frequency: 824.2 MHz; Duty Cycle: 1:2.77  
Medium: HSL835\_0920 Medium parameters used:  $f = 824.2$  MHz;  $\sigma = 0.899$  S/m;  $\epsilon_r = 42.027$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.6°C; Liquid Temperature : 22.6°C

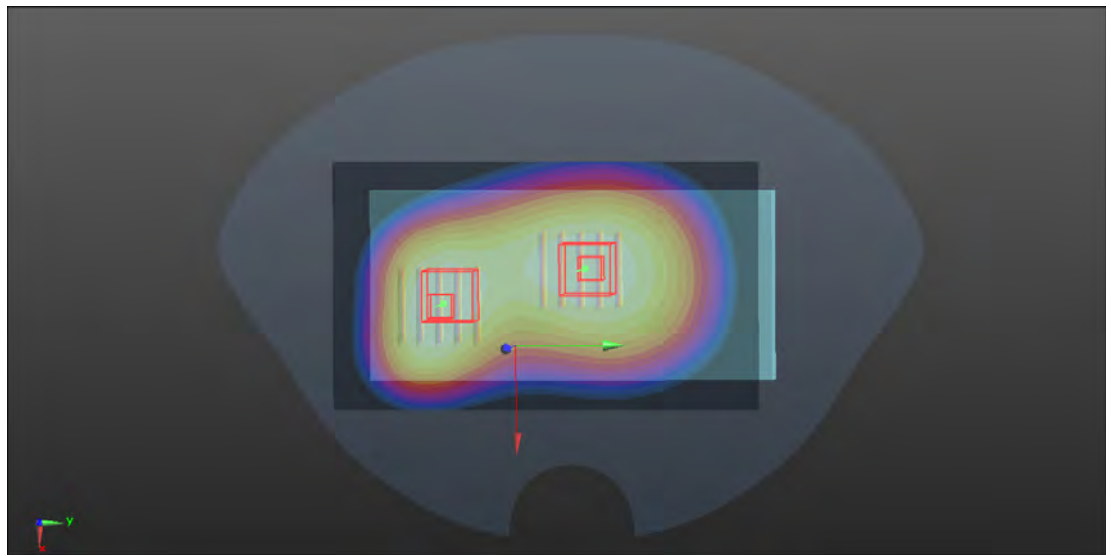
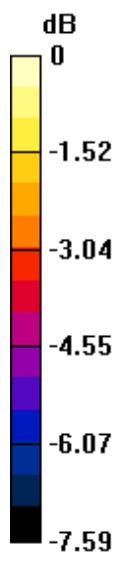
## DASY5 Configuration:

- Probe: EX3DV4 - SN3985; ConvF(9.93, 9.93, 9.93) @ 824.2 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (71x121x1)**: Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.584 W/kg

- **Zoom Scan (5x5x7)/Cube 0**: Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 24.63 V/m; Power Drift = 0.03 dB  
Peak SAR (extrapolated) = 0.772 W/kg  
**SAR(1 g) = 0.550 W/kg; SAR(10 g) = 0.388 W/kg**  
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid  
Ratio of SAR at M2 to SAR at M1 = 72.1%  
Maximum value of SAR (measured) = 0.582 W/kg

- **Zoom Scan (5x5x7)/Cube 1**: Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 24.63 V/m; Power Drift = 0.03 dB  
Peak SAR (extrapolated) = 0.661 W/kg  
**SAR(1 g) = 0.530 W/kg; SAR(10 g) = 0.406 W/kg**  
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid  
Ratio of SAR at M2 to SAR at M1 = 79.2%  
Maximum value of SAR (measured) = 0.554 W/kg



0 dB = 0.554 W/kg

## P40 GSM1900\_GPRS 4Tx Slot\_Front Face\_1cm\_Ch661

Communication System: GPRS 4Tx-slot; Frequency: 1880 MHz; Duty Cycle: 1:2.08

Medium: HSL1900\_0901 Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.416$  S/m;  $\epsilon_r = 40.275$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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

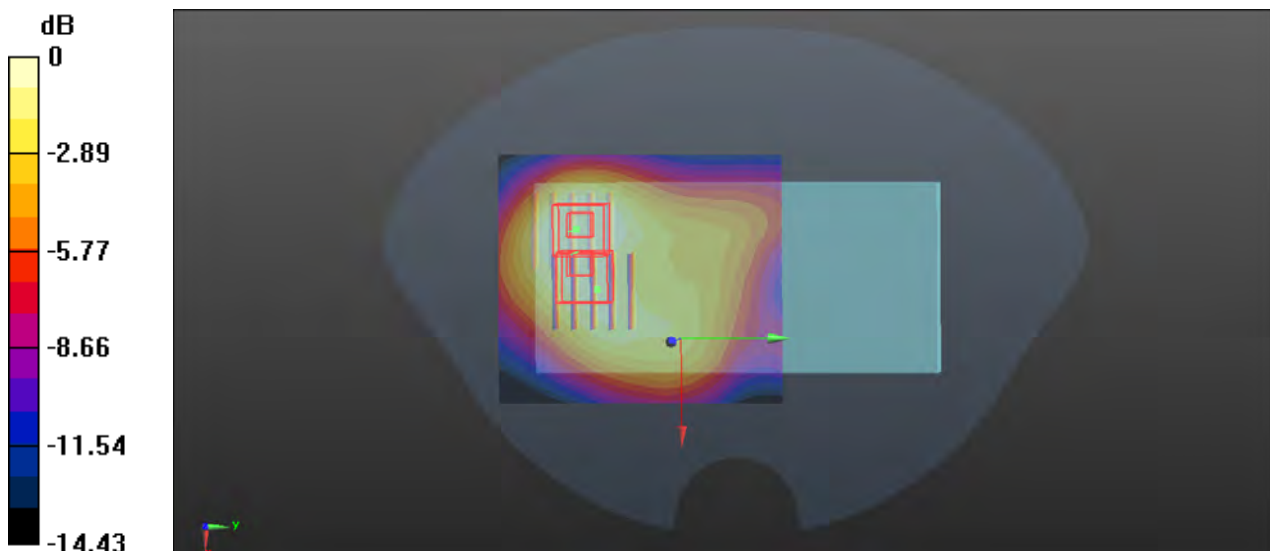
DASY5 Configuration:

- Probe: EX3DV4 - SN3985; ConvF(8.16, 8.16, 8.16) @ 1880 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (71x81x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.412 W/kg

- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 8.520 V/m; Power Drift = 0.13 dB  
Peak SAR (extrapolated) = 0.654 W/kg  
**SAR(1 g) = 0.367 W/kg; SAR(10 g) = 0.207 W/kg**  
Smallest distance from peaks to all points 3 dB below = 14.8 mm  
Ratio of SAR at M2 to SAR at M1 = 56.3%  
Maximum value of SAR (measured) = 0.399 W/kg

- **Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 8.520 V/m; Power Drift = 0.13 dB  
Peak SAR (extrapolated) = 0.442 W/kg  
**SAR(1 g) = 0.259 W/kg; SAR(10 g) = 0.165 W/kg**  
Smallest distance from peaks to all points 3 dB below = 29.9 mm  
Ratio of SAR at M2 to SAR at M1 = 61%  
Maximum value of SAR (measured) = 0.296 W/kg



$$0 \text{ dB} = 0.296 \text{ W/kg}$$

### P41 CDMA BC0\_RC3+SO32 (F+SCH)\_Front Face\_1cm\_Ch777

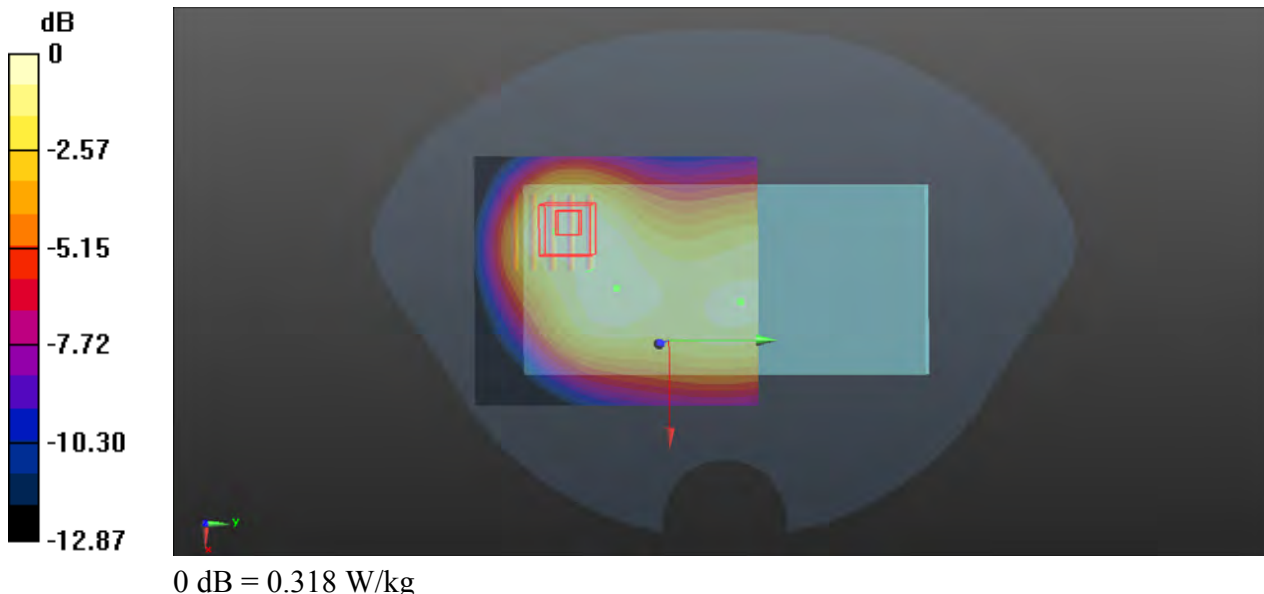
Communication System: CDMA2000; Frequency: 848.31 MHz; Duty Cycle: 1:1  
Medium: HSL835\_0920 Medium parameters used:  $f = 848.31$  MHz;  $\sigma = 0.915$  S/m;  $\epsilon_r = 41.856$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.6°C; Liquid Temperature : 22.5°C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3985; ConvF(9.93, 9.93, 9.93) @ 848.31 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (71x81x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm  
Maximum value of SAR (interpolated) = 0.329 W/kg

- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm  
Reference Value = 16.99 V/m; Power Drift = 0.07 dB  
Peak SAR (extrapolated) = 0.486 W/kg  
**SAR(1 g) = 0.300 W/kg; SAR(10 g) = 0.189 W/kg**  
Smallest distance from peaks to all points 3 dB below = 15.8 mm  
Ratio of SAR at M2 to SAR at M1 = 64.7%  
Maximum value of SAR (measured) = 0.318 W/kg



### P42 CDMA BC1\_RC3+SO32 (F+SCH)\_Front Face\_1cm\_Ch600

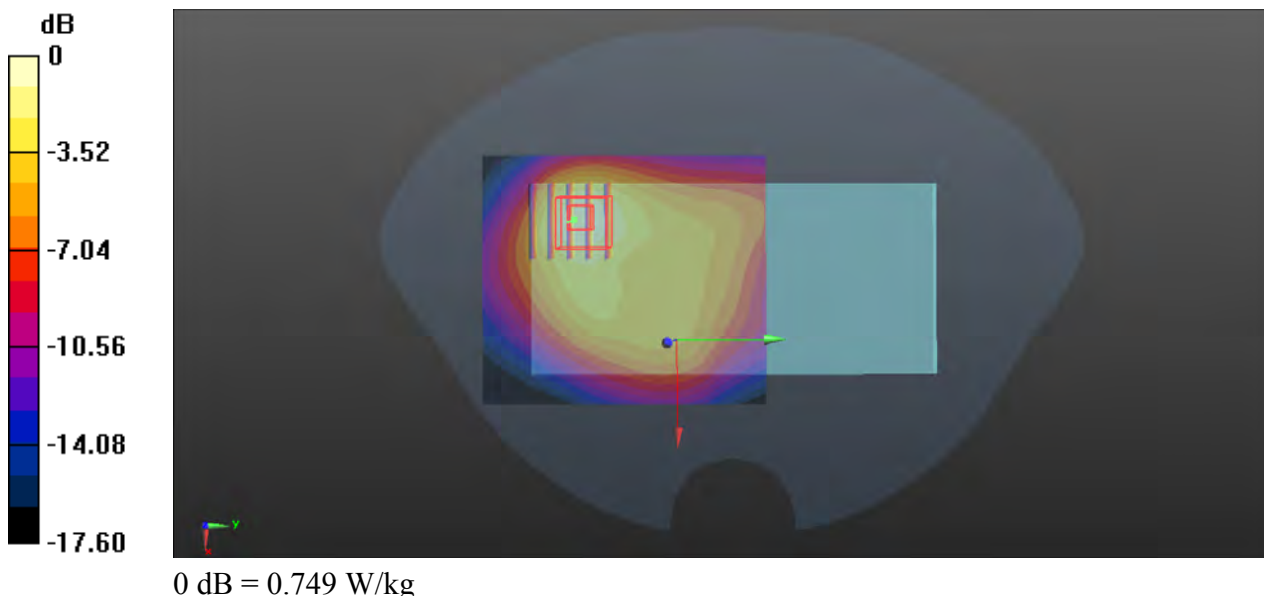
Communication System: CDMA2000; Frequency: 1880 MHz; Duty Cycle: 1:1  
Medium: HSL1900\_0901 Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.416$  S/m;  $\epsilon_r = 40.275$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.5°C; Liquid Temperature : 22.5°C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3985; ConvF(8.16, 8.16, 8.16) @ 1880 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (71x81x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.707 W/kg

- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 11.88 V/m; Power Drift = 0.03 dB  
Peak SAR (extrapolated) = 1.23 W/kg  
**SAR(1 g) = 0.682 W/kg; SAR(10 g) = 0.380 W/kg**  
Smallest distance from peaks to all points 3 dB below = 14.3 mm  
Ratio of SAR at M2 to SAR at M1 = 56.8%  
Maximum value of SAR (measured) = 0.749 W/kg





## P43 WCDMA II\_RMC12.2K\_Front Face\_1cm\_Ch9538

Communication System: WCDMA; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium: HSL1900\_0901 Medium parameters used:  $f = 1908$  MHz;  $\sigma = 1.447$  S/m;  $\epsilon_r = 40.236$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3985; ConvF(8.16, 8.16, 8.16) @ 1907.6 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (71x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.697 W/kg

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

Reference Value = 11.26 V/m; Power Drift = 0.03 dB

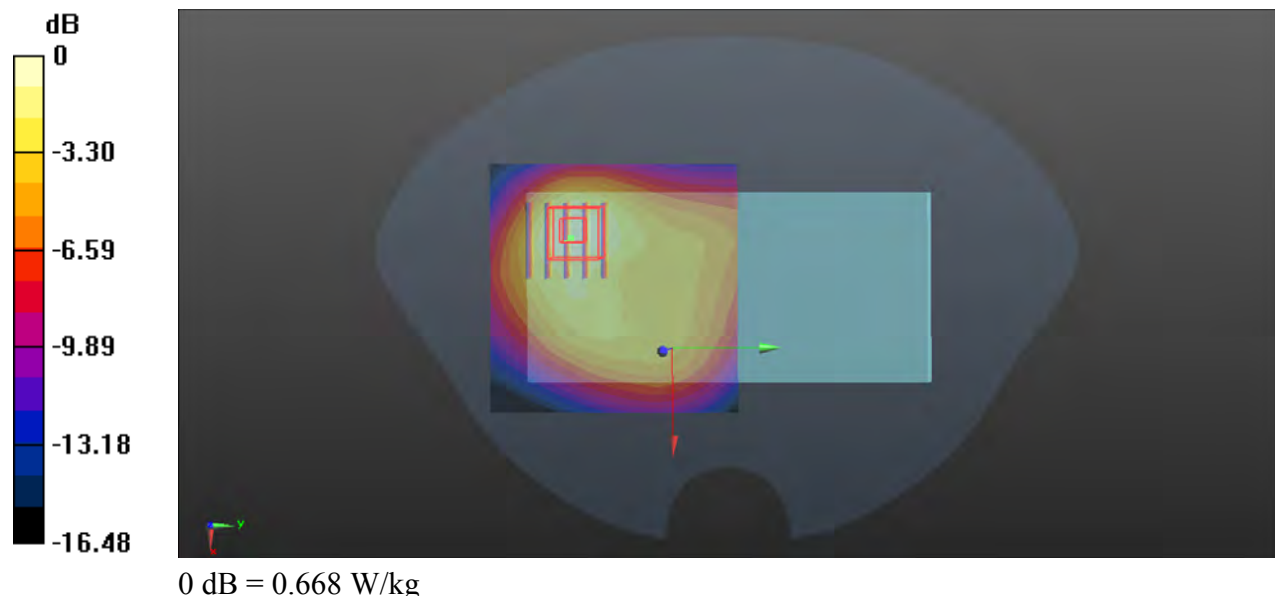
Peak SAR (extrapolated) = 1.12 W/kg

**SAR(1 g) = 0.635 W/kg; SAR(10 g) = 0.359 W/kg**

Smallest distance from peaks to all points 3 dB below = 13.6 mm

Ratio of SAR at M2 to SAR at M1 = 58.3%

Maximum value of SAR (measured) = 0.668 W/kg



## P44 WCDMA IV\_RMC12.2K\_Front Face\_1cm\_Ch1513

Communication System: WCDMA; Frequency: 1752.6 MHz; Duty Cycle: 1:1

Medium: HSL1750\_0922 Medium parameters used:  $f = 1753$  MHz;  $\sigma = 1.359$  S/m;  $\epsilon_r = 40.351$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.6°C; Liquid Temperature : 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3985; ConvF(8.51, 8.51, 8.51) @ 1752.6 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (71x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.478 W/kg

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

Reference Value = 10.64 V/m; Power Drift = 0.18 dB

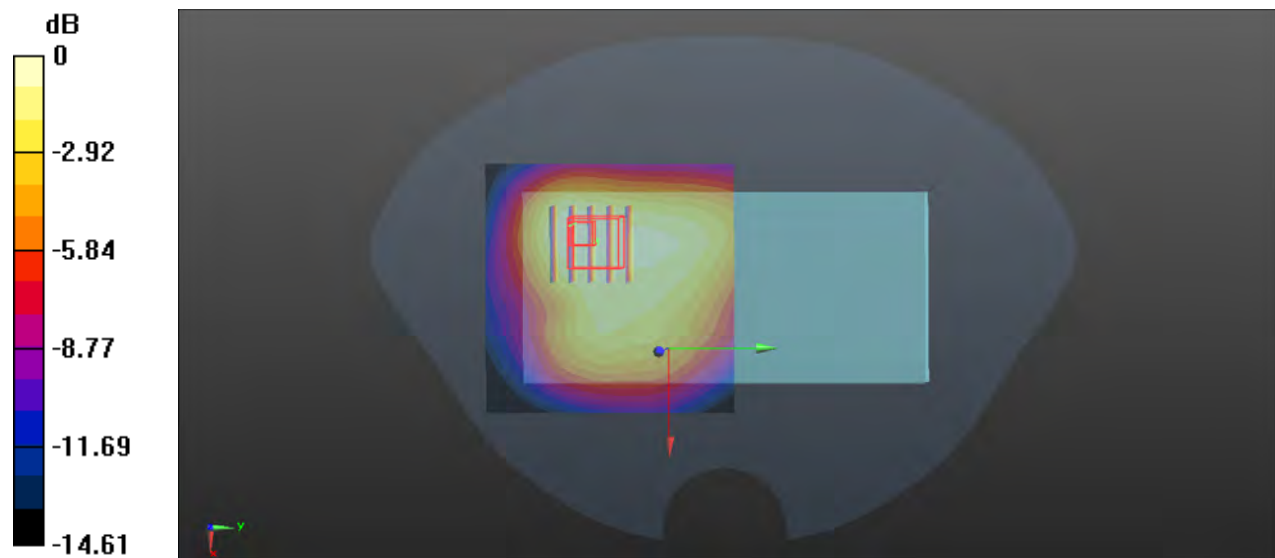
Peak SAR (extrapolated) = 0.714 W/kg

**SAR(1 g) = 0.435 W/kg; SAR(10 g) = 0.273 W/kg**

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 60.3%

Maximum value of SAR (measured) = 0.455 W/kg



0 dB = 0.455 W/kg

## P45 WCDMA V\_RMC12.2K\_Rear Face\_1cm\_Ch4233

Communication System: WCDMA; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium: HSL835\_0920 Medium parameters used:  $f = 847$  MHz;  $\sigma = 0.914$  S/m;  $\epsilon_r = 41.863$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.6°C; Liquid Temperature : 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3985; ConvF(9.93, 9.93, 9.93) @ 846.6 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (71x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.310 W/kg

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

Reference Value = 17.26 V/m; Power Drift = -0.06 dB

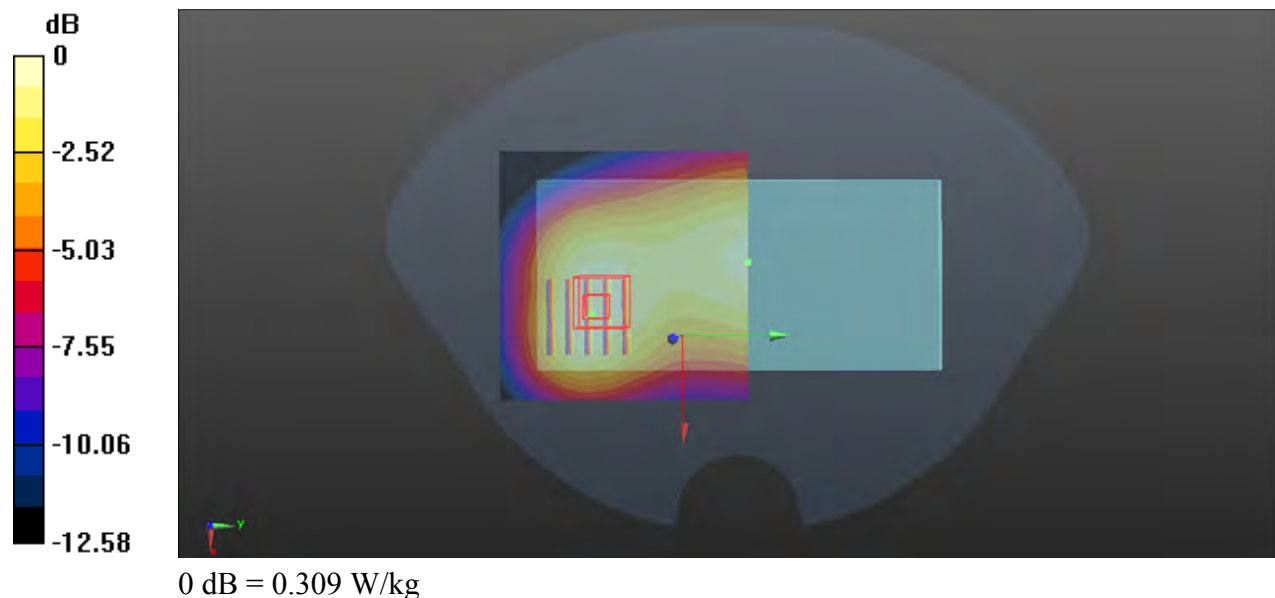
Peak SAR (extrapolated) = 0.416 W/kg

**SAR(1 g) = 0.291 W/kg; SAR(10 g) = 0.200 W/kg**

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 68.3%

Maximum value of SAR (measured) = 0.309 W/kg



### P46 LTE 2\_QPSK20M\_Front Face\_1cm\_Ch19100\_1RB\_OS50

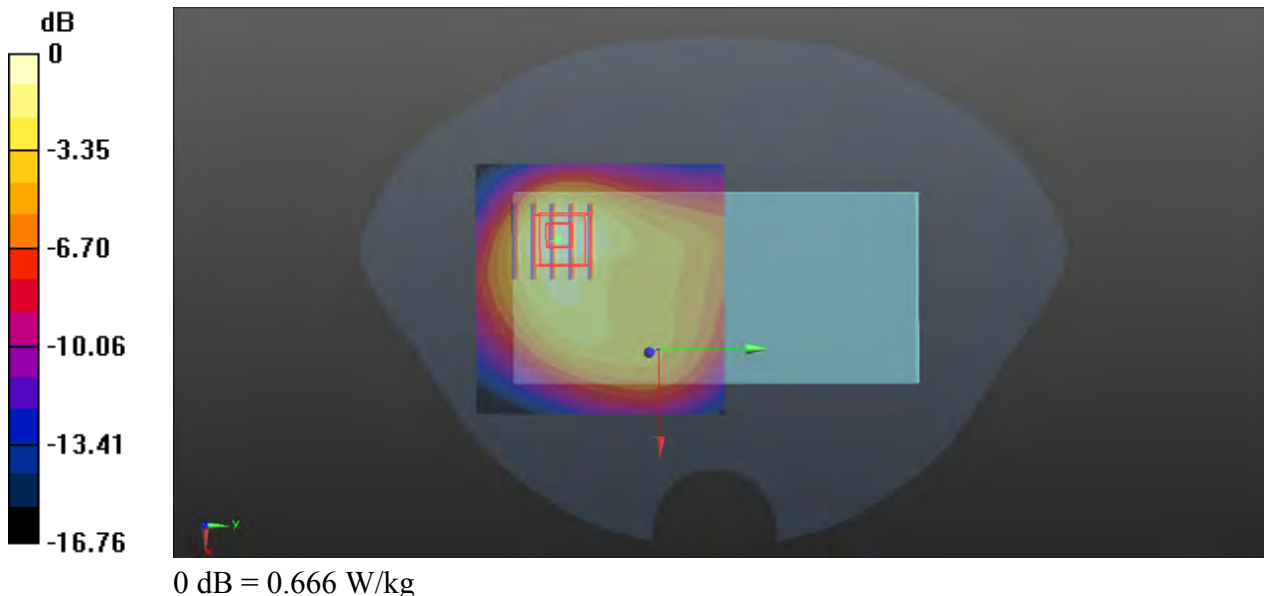
Communication System: LTE; Frequency: 1900 MHz; Duty Cycle: 1:1  
Medium: HSL1900\_0901 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.438$  S/m;  $\epsilon_r = 40.253$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.5°C; Liquid Temperature : 22.5°C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3985; ConvF(8.16, 8.16, 8.16) @ 1900 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (71x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.691 W/kg

- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 11.07 V/m; Power Drift = 0.07 dB  
Peak SAR (extrapolated) = 1.07 W/kg  
**SAR(1 g) = 0.610 W/kg; SAR(10 g) = 0.346 W/kg**  
Smallest distance from peaks to all points 3 dB below = 14.5 mm  
Ratio of SAR at M2 to SAR at M1 = 58%  
Maximum value of SAR (measured) = 0.666 W/kg



### P47 LTE 5\_QPSK10M\_Rear Face\_1cm\_Ch20600\_1RB\_OS24

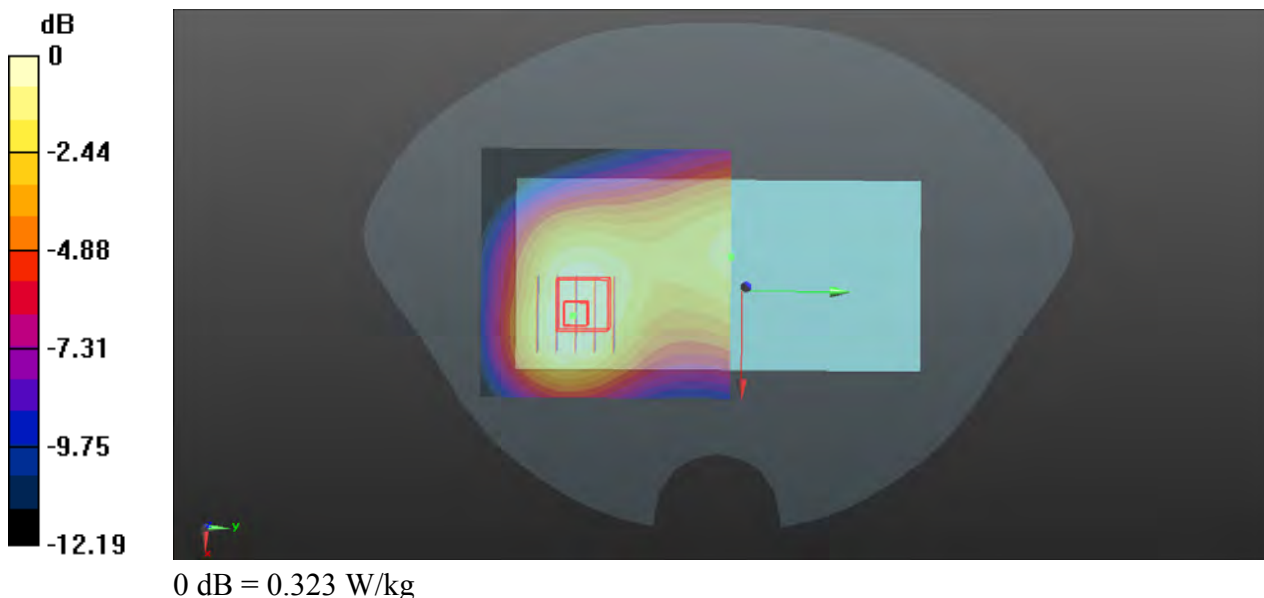
Communication System: LTE; Frequency: 844 MHz; Duty Cycle: 1:1  
Medium: HSL835\_0920 Medium parameters used:  $f = 844 \text{ MHz}$ ;  $\sigma = 0.912 \text{ S/m}$ ;  $\epsilon_r = 41.885$ ;  $\rho = 1000 \text{ kg/m}^3$   
Ambient Temperature :  $23.6^\circ\text{C}$ ; Liquid Temperature :  $22.5^\circ\text{C}$

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3985; ConvF(9.93, 9.93, 9.93) @ 844 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (71x71x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$   
Maximum value of SAR (interpolated) =  $0.336 \text{ W/kg}$

- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value =  $15.75 \text{ V/m}$ ; Power Drift =  $0.15 \text{ dB}$   
Peak SAR (extrapolated) =  $0.432 \text{ W/kg}$   
**SAR(1 g) =  $0.303 \text{ W/kg}$ ; SAR(10 g) =  $0.207 \text{ W/kg}$**   
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid  
Ratio of SAR at M2 to SAR at M1 =  $69.3\%$   
Maximum value of SAR (measured) =  $0.323 \text{ W/kg}$



### P48 LTE 7\_QPSK20M\_Rear Face\_1cm\_Ch21100\_1RB\_OS50

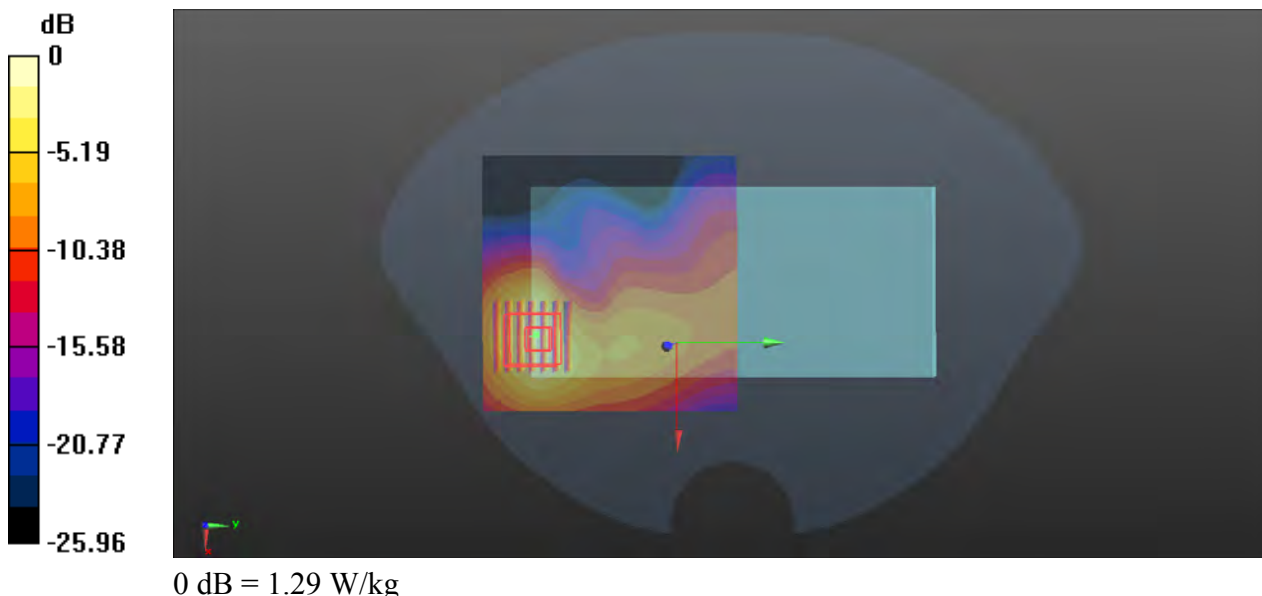
Communication System: LTE; Frequency: 2535 MHz; Duty Cycle: 1:1  
Medium: HSL2600\_0923 Medium parameters used:  $f = 2535$  MHz;  $\sigma = 1.978$  S/m;  $\epsilon_r = 38.261$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.7°C; Liquid Temperature : 22.4°C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3985; ConvF(7.64, 7.64, 7.64) @ 2535 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (91x91x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm  
Maximum value of SAR (interpolated) = 1.29 W/kg

- **Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 8.356 V/m; Power Drift = -0.18 dB  
Peak SAR (extrapolated) = 2.45 W/kg  
**SAR(1 g) = 1.16 W/kg; SAR(10 g) = 0.551 W/kg**  
Smallest distance from peaks to all points 3 dB below = 9.8 mm  
Ratio of SAR at M2 to SAR at M1 = 50.9%  
Maximum value of SAR (measured) = 1.29 W/kg



### P49 LTE 12\_QPSK10M\_Front Face\_1cm\_Ch23060\_1RB\_OS0

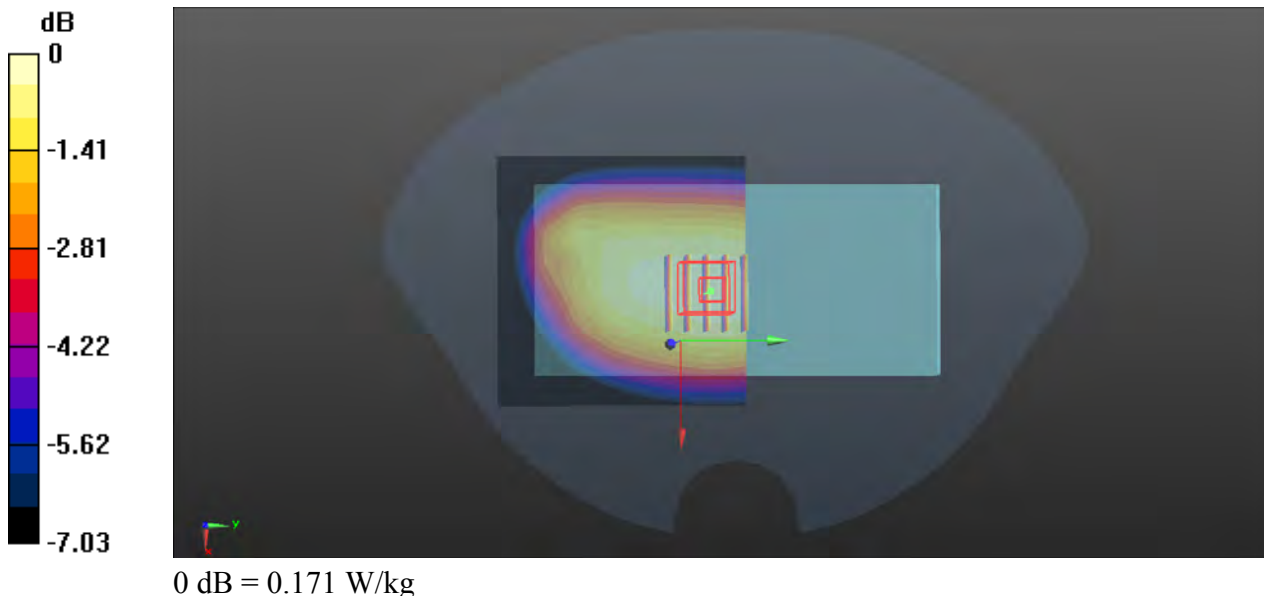
Communication System: LTE; Frequency: 704 MHz; Duty Cycle: 1:1  
Medium: HSL750\_0919 Medium parameters used:  $f = 704 \text{ MHz}$ ;  $\sigma = 0.851 \text{ S/m}$ ;  $\epsilon_r = 41.613$ ;  $\rho = 1000 \text{ kg/m}^3$   
Ambient Temperature :  $23.5^\circ\text{C}$ ; Liquid Temperature :  $22.4^\circ\text{C}$

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3985; ConvF(10.25, 10.25, 10.25) @ 704 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (71x71x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$   
Maximum value of SAR (interpolated) =  $0.169 \text{ W/kg}$

- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value =  $14.10 \text{ V/m}$ ; Power Drift =  $0.15 \text{ dB}$   
Peak SAR (extrapolated) =  $0.198 \text{ W/kg}$   
**SAR(1 g) =  $0.164 \text{ W/kg}$ ; SAR(10 g) =  $0.129 \text{ W/kg}$**   
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid  
Ratio of SAR at M2 to SAR at M1 =  $80.6\%$   
Maximum value of SAR (measured) =  $0.171 \text{ W/kg}$





### P50 LTE 13\_QPSK10M\_Front Face\_1cm\_Ch23230\_1RB\_OS0

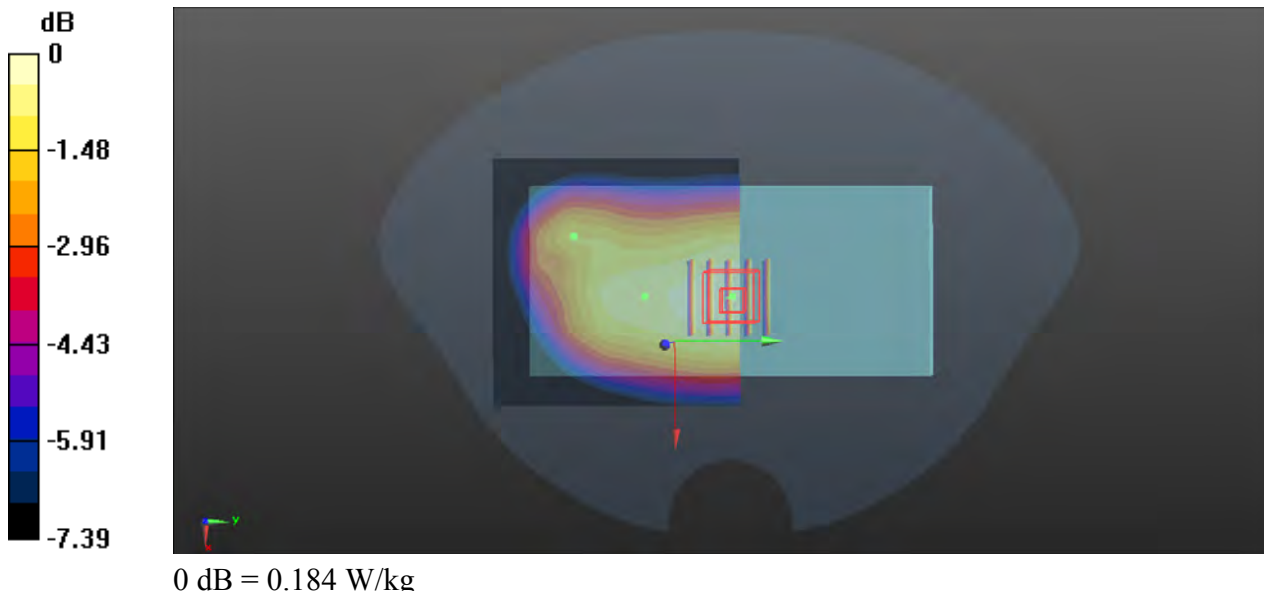
Communication System: LTE; Frequency: 782 MHz; Duty Cycle: 1:1  
Medium: HSL750\_0919 Medium parameters used:  $f = 782 \text{ MHz}$ ;  $\sigma = 0.905 \text{ S/m}$ ;  $\epsilon_r = 41.078$ ;  $\rho = 1000 \text{ kg/m}^3$   
Ambient Temperature :  $23.5^\circ\text{C}$ ; Liquid Temperature :  $22.4^\circ\text{C}$

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3985; ConvF(10.25, 10.25, 10.25) @ 782 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (71x71x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$   
Maximum value of SAR (interpolated) =  $0.182 \text{ W/kg}$

- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value =  $14.29 \text{ V/m}$ ; Power Drift =  $-0.06 \text{ dB}$   
Peak SAR (extrapolated) =  $0.216 \text{ W/kg}$   
**SAR(1 g) =  $0.177 \text{ W/kg}$ ; SAR(10 g) =  $0.137 \text{ W/kg}$**   
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid  
Ratio of SAR at M2 to SAR at M1 =  $80.7\%$   
Maximum value of SAR (measured) =  $0.184 \text{ W/kg}$





### P51 LTE 14\_QPSK10M\_Front Face\_1cm\_Ch23330\_1RB\_OS0

Communication System: LTE; Frequency: 793 MHz; Duty Cycle: 1:1  
Medium: HSL750\_0919 Medium parameters used:  $f = 793$  MHz;  $\sigma = 0.907$  S/m;  $\epsilon_r = 40.958$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.5°C; Liquid Temperature : 22.4°C

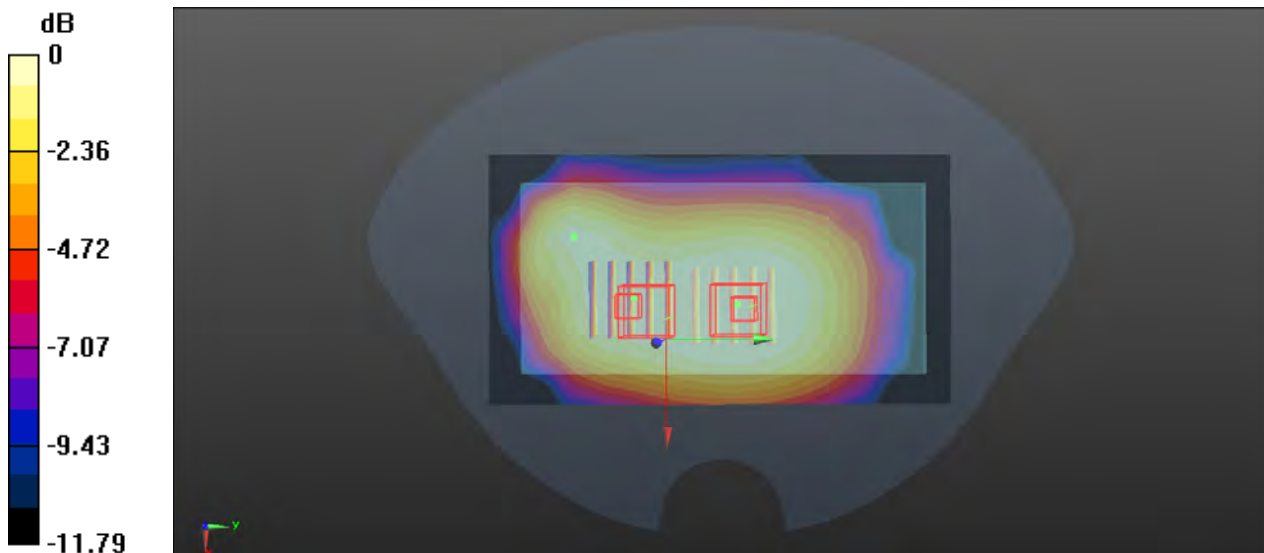
#### DASY5 Configuration:

- Probe: EX3DV4 - SN3985; ConvF(10.25, 10.25, 10.25) @ 793 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (71x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.214 W/kg

- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 14.86 V/m; Power Drift = -0.10 dB  
Peak SAR (extrapolated) = 0.251 W/kg  
**SAR(1 g) = 0.202 W/kg; SAR(10 g) = 0.153 W/kg**  
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid  
Ratio of SAR at M2 to SAR at M1 = 78%  
Maximum value of SAR (measured) = 0.212 W/kg

- **Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 14.86 V/m; Power Drift = -0.10 dB  
Peak SAR (extrapolated) = 0.244 W/kg  
**SAR(1 g) = 0.177 W/kg; SAR(10 g) = 0.133 W/kg**  
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid  
Ratio of SAR at M2 to SAR at M1 = 78.2%  
Maximum value of SAR (measured) = 0.188 W/kg



$$0 \text{ dB} = 0.188 \text{ W/kg}$$

### P52 LTE 41\_QPSK20M\_Rear Face\_1cm\_Ch41490\_1RB\_OS50

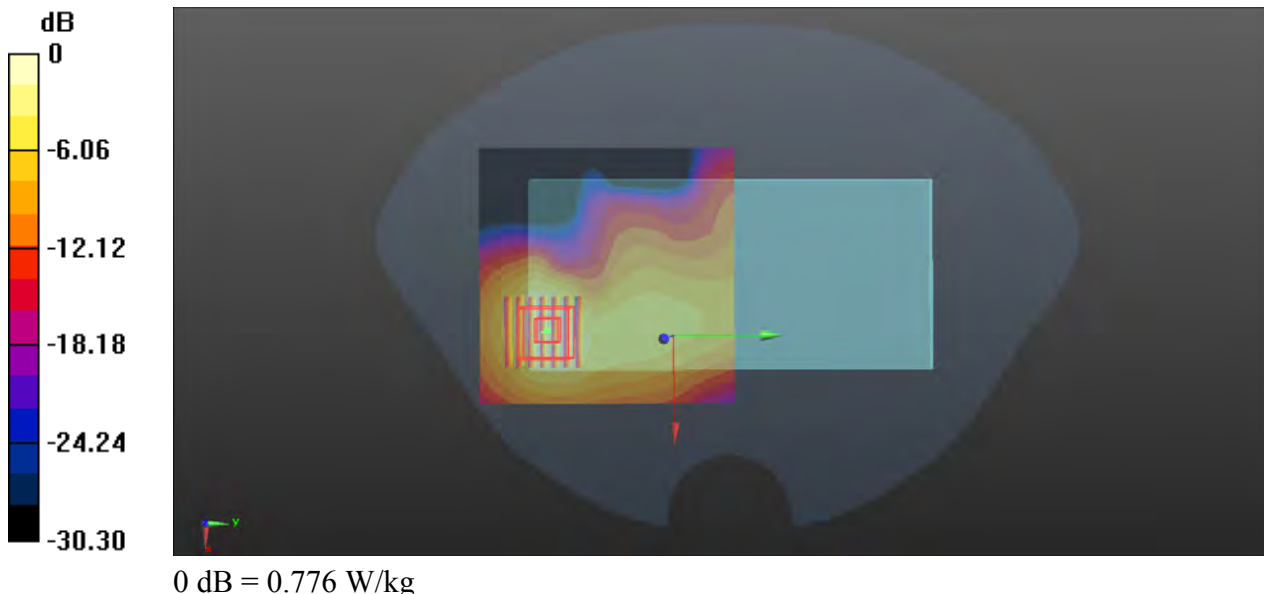
Communication System: LTE TDD; Frequency: 2680 MHz; Duty Cycle: 1:1.59  
Medium: HSL2600\_0923 Medium parameters used:  $f = 2680$  MHz;  $\sigma = 2.15$  S/m;  $\epsilon_r = 37.707$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.7°C; Liquid Temperature : 22.4°C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3985; ConvF(7.64, 7.64, 7.64) @ 2680 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (91x91x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm  
Maximum value of SAR (interpolated) = 0.764 W/kg

- **Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 7.515 V/m; Power Drift = 0.01 dB  
Peak SAR (extrapolated) = 1.39 W/kg  
**SAR(1 g) = 0.692 W/kg; SAR(10 g) = 0.338 W/kg**  
Smallest distance from peaks to all points 3 dB below = 11.7 mm  
Ratio of SAR at M2 to SAR at M1 = 51.8%  
Maximum value of SAR (measured) = 0.776 W/kg



### P53 LTE 66\_QPSK20M\_Front Face\_1cm\_Ch132072\_1RB\_OS99

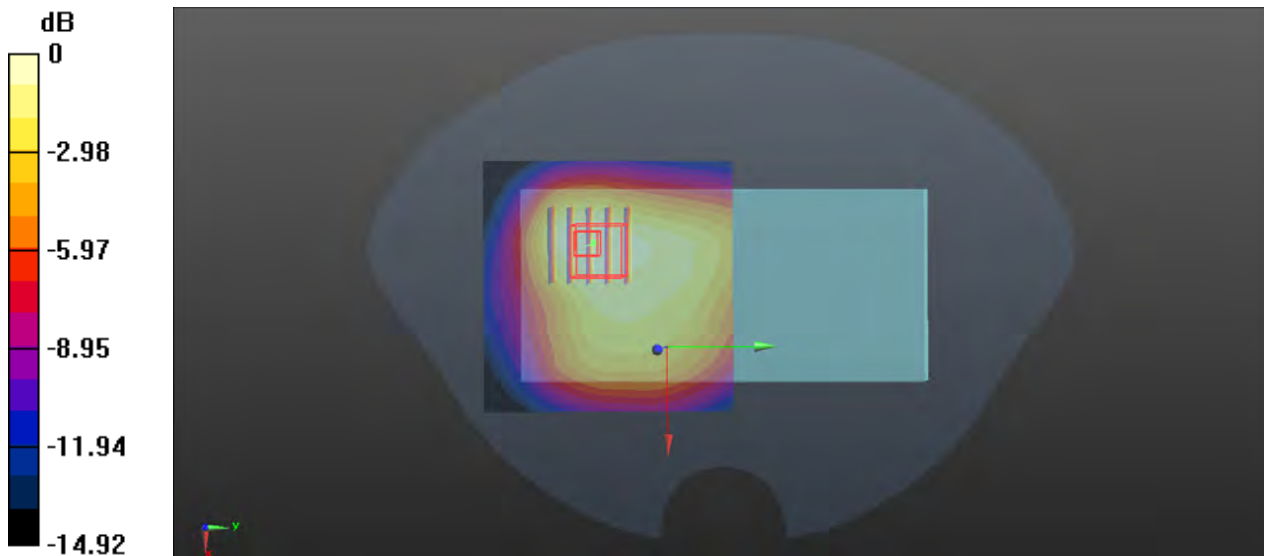
Communication System: LTE; Frequency: 1720 MHz; Duty Cycle: 1:1  
Medium: HSL1750\_0922 Medium parameters used:  $f = 1720$  MHz;  $\sigma = 1.325$  S/m;  $\epsilon_r = 40.479$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.6°C; Liquid Temperature : 22.7°C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3985; ConvF(8.51, 8.51, 8.51) @ 1720 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (71x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.509 W/kg

- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 12.48 V/m; Power Drift = 0.01 dB  
Peak SAR (extrapolated) = 0.717 W/kg  
**SAR(1 g) = 0.439 W/kg; SAR(10 g) = 0.274 W/kg**  
Smallest distance from peaks to all points 3 dB below = 17.9 mm  
Ratio of SAR at M2 to SAR at M1 = 63.5%  
Maximum value of SAR (measured) = 0.471 W/kg



0 dB = 0.471 W/kg

### P54 WLAN2.4G\_802.11b\_Front Face\_1cm\_Ch11

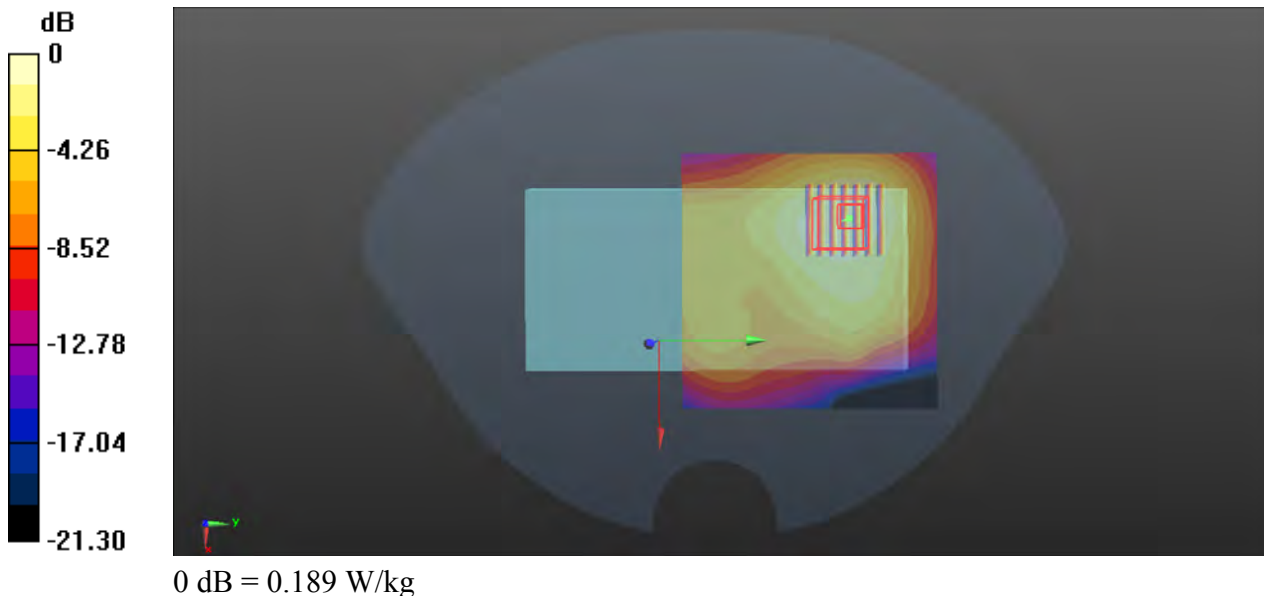
Communication System: 802.11b; Frequency: 2462 MHz; Duty Cycle: 1:1.015  
Medium: HSL2450\_0903 Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.867$  S/m;  $\epsilon_r = 38.484$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.6°C; Liquid Temperature : 22.7°C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3985; ConvF(7.79, 7.79, 7.79) @ 2462 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (91x91x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm  
Maximum value of SAR (interpolated) = 0.194 W/kg

- **Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 5.751 V/m; Power Drift = 0.19 dB  
Peak SAR (extrapolated) = 0.327 W/kg  
**SAR(1 g) = 0.175 W/kg; SAR(10 g) = 0.099 W/kg**  
Smallest distance from peaks to all points 3 dB below = 17.7 mm  
Ratio of SAR at M2 to SAR at M1 = 53.5%  
Maximum value of SAR (measured) = 0.189 W/kg



### P55 WLAN5G\_802.11a\_Rear Face\_1cm\_Ch52

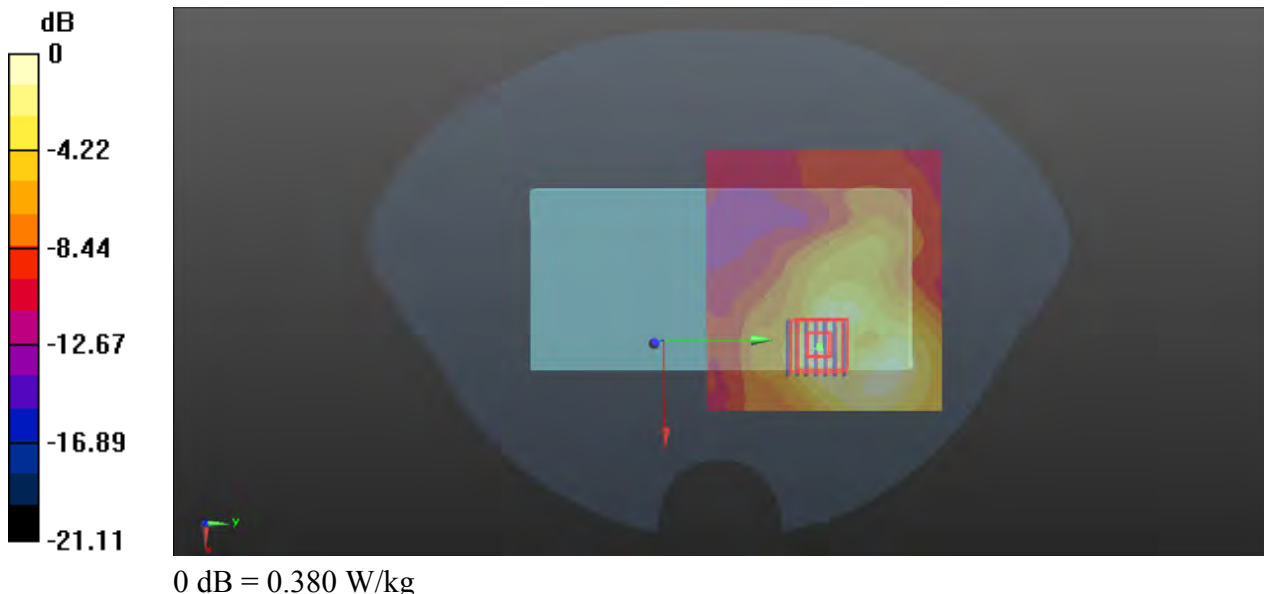
Communication System: 802.11a; Frequency: 5260 MHz; Duty Cycle: 1:1.016  
Medium: HSL5G\_0925 Medium parameters used:  $f = 5260$  MHz;  $\sigma = 4.583$  S/m;  $\epsilon_r = 35.142$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.5°C; Liquid Temperature : 22.4°C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3985; ConvF(5.52, 5.52, 5.52) @ 5260 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (111x101x1)**: Interpolated grid: dx=1.000 mm, dy=1.000 mm  
Maximum value of SAR (interpolated) = 0.379 W/kg

- **Zoom Scan (7x7x12)/Cube 0**: Measurement grid: dx=4mm, dy=4mm, dz=2mm  
Reference Value = 2.508 V/m; Power Drift = -0.09 dB  
Peak SAR (extrapolated) = 0.733 W/kg  
**SAR(1 g) = 0.208 W/kg; SAR(10 g) = 0.081 W/kg**  
Smallest distance from peaks to all points 3 dB below = 8.9 mm  
Ratio of SAR at M2 to SAR at M1 = 56.1%  
Maximum value of SAR (measured) = 0.380 W/kg



### P56 WLAN5G\_802.11a\_Rear Face\_1cm\_Ch157

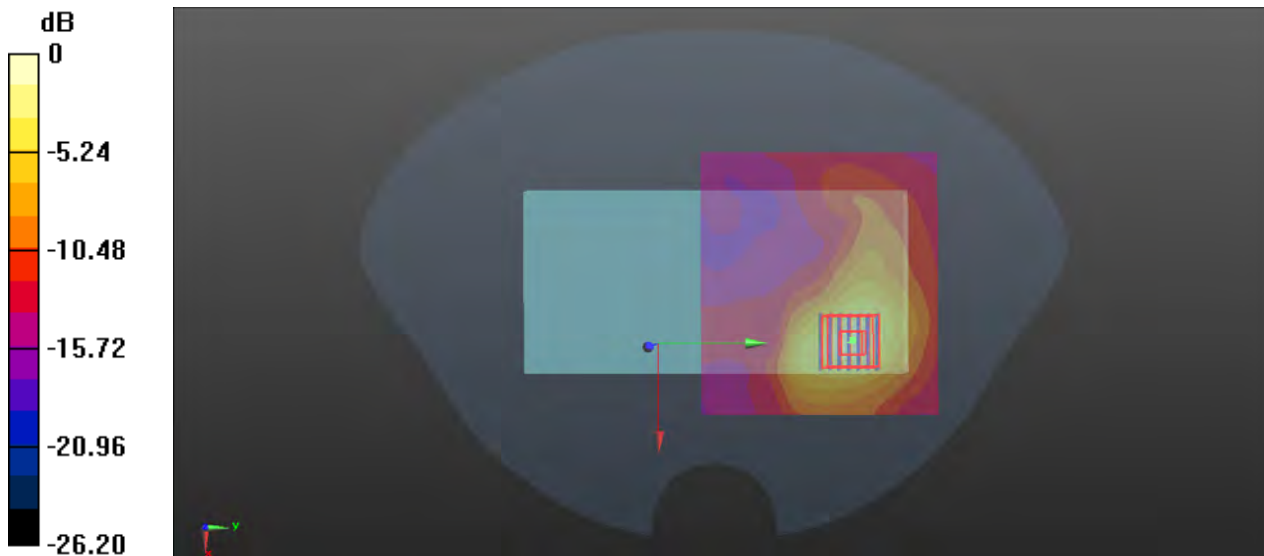
Communication System: 802.11a; Frequency: 5785 MHz; Duty Cycle: 1:1.016  
Medium: HSL5G\_0925 Medium parameters used:  $f = 5785$  MHz;  $\sigma = 5.162$  S/m;  $\epsilon_r = 34.395$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.6°C; Liquid Temperature : 22.4°C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3985; ConvF(5.05, 5.05, 5.05) @ 5785 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (111x101x1)**: Interpolated grid: dx=1.000 mm, dy=1.000 mm  
Maximum value of SAR (interpolated) = 0.928 W/kg

- **Zoom Scan (7x7x12)/Cube 0**: Measurement grid: dx=4mm, dy=4mm, dz=2mm  
Reference Value = 2.202 V/m; Power Drift = -0.02 dB  
Peak SAR (extrapolated) = 1.98 W/kg  
**SAR(1 g) = 0.485 W/kg; SAR(10 g) = 0.176 W/kg**  
Smallest distance from peaks to all points 3 dB below = 10 mm  
Ratio of SAR at M2 to SAR at M1 = 52.1%  
Maximum value of SAR (measured) = 0.934 W/kg



0 dB = 0.934 W/kg

### P57 BT\_GFSK\_Front Face\_1cm\_Ch39

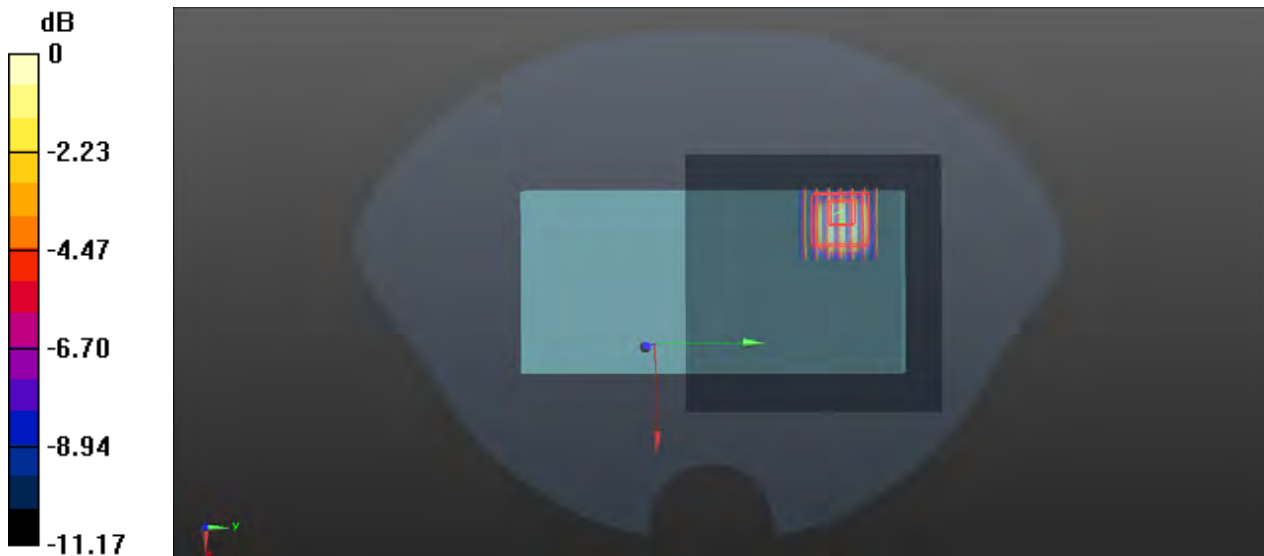
Communication System: BT; Frequency: 2441 MHz; Duty Cycle: 1:1.302  
Medium: HSL2450\_0903 Medium parameters used:  $f = 2441$  MHz;  $\sigma = 1.851$  S/m;  $\epsilon_r = 38.555$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.6°C; Liquid Temperature : 22.7°C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3985; ConvF(7.79, 7.79, 7.79) @ 2441 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (91x91x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm  
Maximum value of SAR (interpolated) = 0.0192 W/kg

- **Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 1.595 V/m; Power Drift = 0.10 dB  
Peak SAR (extrapolated) = 0.0940 W/kg  
**SAR(1 g) = 0.020 W/kg; SAR(10 g) = 0.00849 W/kg**  
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid  
Ratio of SAR at M2 to SAR at M1 = 58.3%  
Maximum value of SAR (measured) = 0.0151 W/kg



0 dB = 0.0151 W/kg



### P58 LTE 7\_QPSK20M\_Bottom Side\_0cm\_Ch21350\_1RB\_OS50

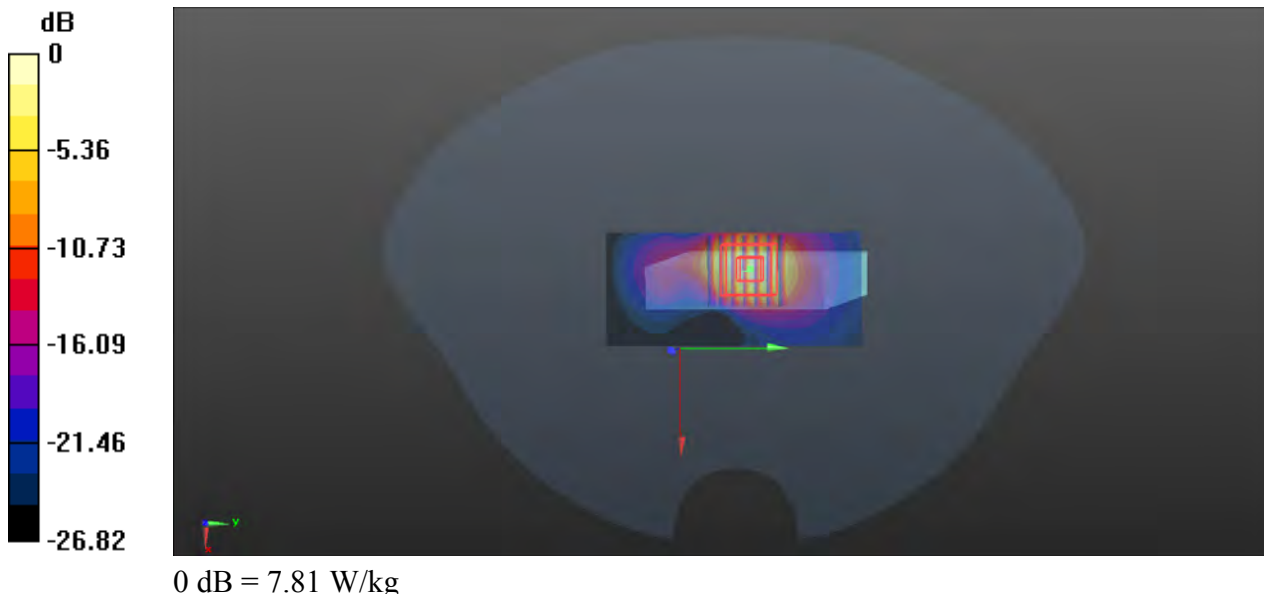
Communication System: LTE; Frequency: 2560 MHz; Duty Cycle: 1:1  
Medium: HSL2600\_1018 Medium parameters used:  $f = 2560$  MHz;  $\sigma = 1.903$  S/m;  $\epsilon_r = 39.108$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.7°C; Liquid Temperature : 22.6°C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3985; ConvF(7.64, 7.64, 7.64) @ 2560 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (41x91x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm  
Maximum value of SAR (interpolated) = 8.31 W/kg

- **Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 32.18 V/m; Power Drift = 0.15 dB  
Peak SAR (extrapolated) = 12.7 W/kg  
**SAR(1 g) = 5.48 W/kg; SAR(10 g) = 2.07 W/kg**  
Smallest distance from peaks to all points 3 dB below = 7 mm  
Ratio of SAR at M2 to SAR at M1 = 46.4%  
Maximum value of SAR (measured) = 7.81 W/kg



## P59 LTE 41\_QPSK20M\_Bottom Side\_0cm\_Ch41490\_1RB\_OS50

Communication System: LTE TDD; Frequency: 2680 MHz; Duty Cycle: 1:1.59

Medium: HSL2600\_0923 Medium parameters used:  $f = 2680$  MHz;  $\sigma = 2.15$  S/m;  $\epsilon_r = 37.707$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.5°C; Liquid Temperature : 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3985; ConvF(7.64, 7.64, 7.64) @ 2680 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (51x81x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 8.68 W/kg

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

Reference Value = 27.45 V/m; Power Drift = 0.03 dB

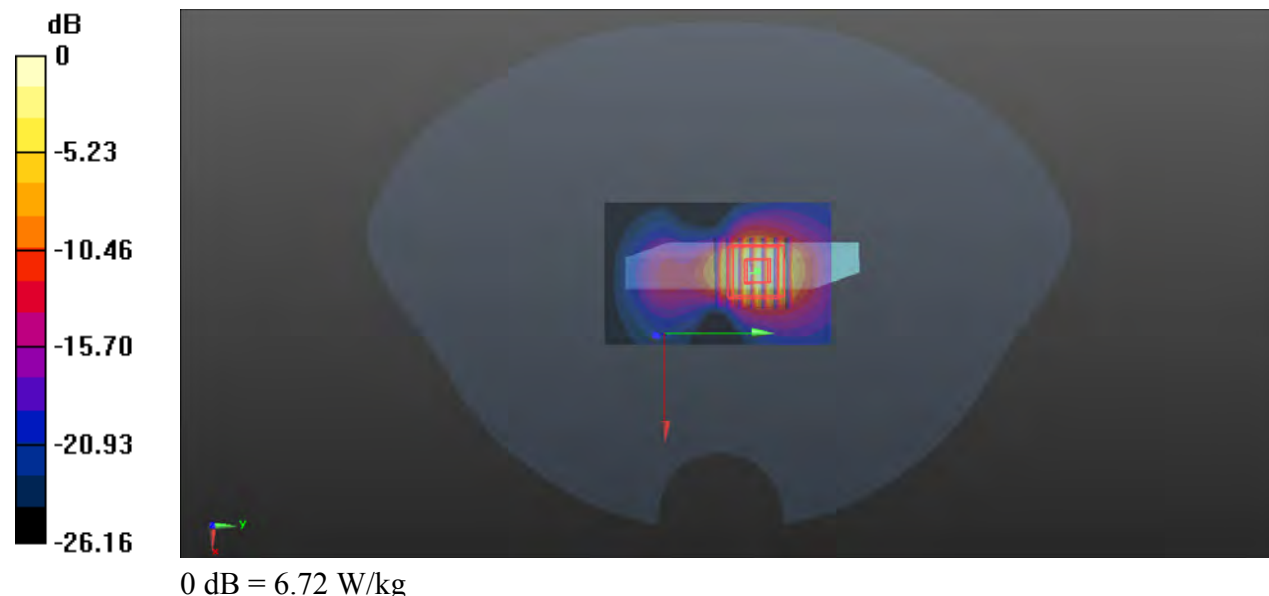
Peak SAR (extrapolated) = 12.4 W/kg

**SAR(1 g) = 5.56 W/kg; SAR(10 g) = 2.16 W/kg**

Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 48.3%

Maximum value of SAR (measured) = 6.72 W/kg



### P60 WLAN5G\_802.11a\_Top Side\_0cm\_Ch52

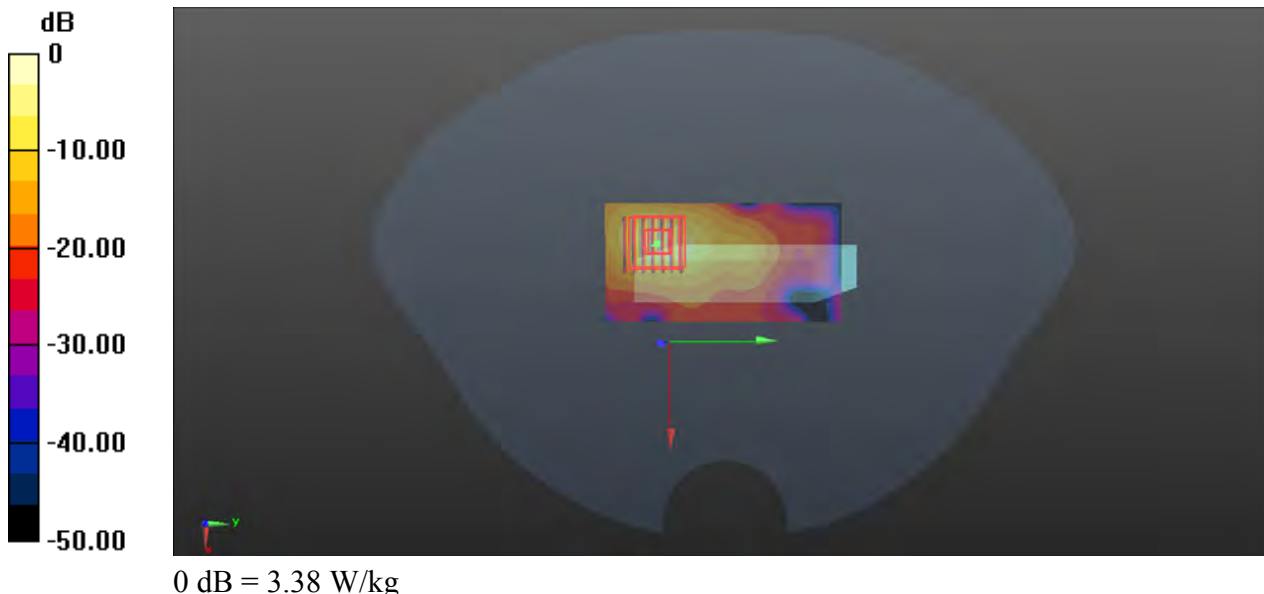
Communication System: 802.11a; Frequency: 5260 MHz; Duty Cycle: 1:1.016  
Medium: HSL5G\_0925 Medium parameters used:  $f = 5260$  MHz;  $\sigma = 4.583$  S/m;  $\epsilon_r = 35.142$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.5°C; Liquid Temperature : 22.4°C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3985; ConvF(5.52, 5.52, 5.52) @ 5260 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (51x101x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm  
Maximum value of SAR (interpolated) = 2.84 W/kg

- **Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm  
Reference Value = 5.334 V/m; Power Drift = 0.03 dB  
Peak SAR (extrapolated) = 7.10 W/kg  
**SAR(1 g) = 1.45 W/kg; SAR(10 g) = 0.366 W/kg**  
Smallest distance from peaks to all points 3 dB below = 5.4 mm  
Ratio of SAR at M2 to SAR at M1 = 52.3%  
Maximum value of SAR (measured) = 3.38 W/kg





## **Appendix C. Calibration Certificate for Probe and Dipole**

The SPEAG calibration certificates are shown as follows.



Add: No.52 HuaYuanBei Road, Haidian District, Beijing, 100191  
Tel: +86-10-62304633-2117  
E-mail: emf@caict.ac.cn      http://www.caict.ac.cn

**Client:** B.V.ADT

**Certificate No:** 24J02Z000323

## CALIBRATION CERTIFICATE

**Object** D750V3 - SN: 1067

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




**Calibration date:** June 17, 2024

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	106276	17-May-24 (CTTL, No. J24X04107)	May-25
Power sensor NRP6A	101369	17-May-24 (CTTL, No. J24X04107)	May-25
Reference Probe EX3DV4	SN 7307	28-May-24(SPEAG, No. EX-7307_May24)	May-25
DAE4	SN 1556	03-Jan-24(CTTL-SPEAG, No.24J02Z80002)	Jan-25
Secondary Standards	ID #	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Signal Generator E4438C	MY49071430	25-Dec-23 (CTTL, No. J23X13426)	Dec-24
NetworkAnalyzer E5071C	MY46110673	25-Dec-23 (CTTL, No. J23X13425)	Dec-24
OCP DAK-3.5(weighted)	1040	22-Jan-24(SPEAG, No.OCP-DAK3.5-1040_Jan24)	Jan-25

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

Issued: June 22, 2024

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





Add: No.52 HuaYuanBei Road, Haidian District, Beijing, 100191, China  
Tel: +86-10-62304633-2117  
E-mail: emf@caict.ac.cn      <http://www.caict.ac.cn>

### 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:

- a) IEC/IEEE 62209-1528, "Measurement Procedure for The Assessment of Specific Absorption Rate of Human Exposure to Radio Frequency Fields from Hand-held and Body-mounted Wireless Communication Devices- Part 1528: Human Models, Instrumentation and Procedures (Frequency range of 4 MHz to 10 GHz)", October 2020
- b) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

### Additional Documentation:

- c) 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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 Tel: +86-10-62304633-2117  
 E-mail: emf@caict.ac.cn      http://www.caict.ac.cn

### Measurement Conditions

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

<b>DASY Version</b>	DASY52	V52.10.4
<b>Extrapolation</b>	Advanced Extrapolation	
<b>Phantom</b>	Triple Flat Phantom 5.1C	
<b>Distance Dipole Center - TSL</b>	15 mm	with Spacer
<b>Zoom Scan Resolution</b>	dx, dy, dz = 5 mm	
<b>Frequency</b>	750 MHz ± 1 MHz	

### Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
<b>Nominal Head TSL parameters</b>	22.0 °C	41.9	0.89 mho/m
<b>Measured Head TSL parameters</b>	(22.0 ± 0.2) °C	41.7 ± 6 %	0.87 mho/m ± 6 %
<b>Head TSL temperature change during test</b>	<1.0 °C	----	----

### SAR result with Head TSL

<b>SAR averaged over 1 cm<sup>3</sup> (1 g) of Head TSL</b>	Condition	
SAR measured	250 mW input power	2.09 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	<b>8.49 W/kg ± 18.8 % (k=2)</b>
<b>SAR averaged over 10 cm<sup>3</sup> (10 g) of Head TSL</b>	Condition	
SAR measured	250 mW input power	1.38 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	<b>5.59 W/kg ± 18.7 % (k=2)</b>





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## Appendix (Additional assessments outside the scope of CNAS L0570)

### Antenna Parameters with Head TSL

Impedance, transformed to feed point	54.8Ω+ 2.71jΩ
Return Loss	- 25.6dB

### General Antenna Parameters and Design

Electrical Delay (one direction)	0.945 ns
----------------------------------	----------

After long term use with 100W radiated power, only a slight warming of the dipole near the feed-point can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feed-point may be damaged.

### Additional EUT Data

Manufactured by	SPEAG
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**DASY5 Validation Report for Head TSL**

Date: 2024-06-17

Test Laboratory: CTTL, Beijing, China

**DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3 - SN: 1067**

Communication System: UID 0, CW; Frequency: 750 MHz

Medium parameters used:  $f = 750 \text{ MHz}$ ;  $\sigma = 0.871 \text{ S/m}$ ;  $\epsilon_r = 41.65$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN7307; ConvF(9.25, 9.17, 10.18) @ 750 MHz; Calibrated: 2024-05-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1556; Calibrated: 2024-01-03
- Phantom: MFP\_V5.1C (20deg probe tilt); Type: QD 000 P51 Cx; Serial: 1062
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

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

Reference Value = 56.28 V/m; Power Drift = -0.01 dB

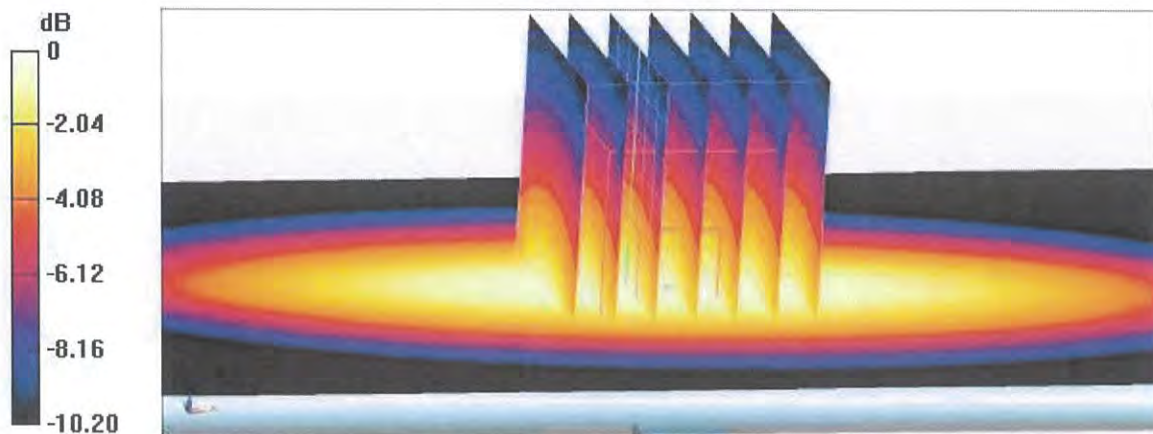
Peak SAR (extrapolated) = 2.99 W/kg

**SAR(1 g) = 2.09 W/kg; SAR(10 g) = 1.38 W/kg**

Smallest distance from peaks to all points 3 dB below = 18.6 mm

Ratio of SAR at M2 to SAR at M1 = 69.1%

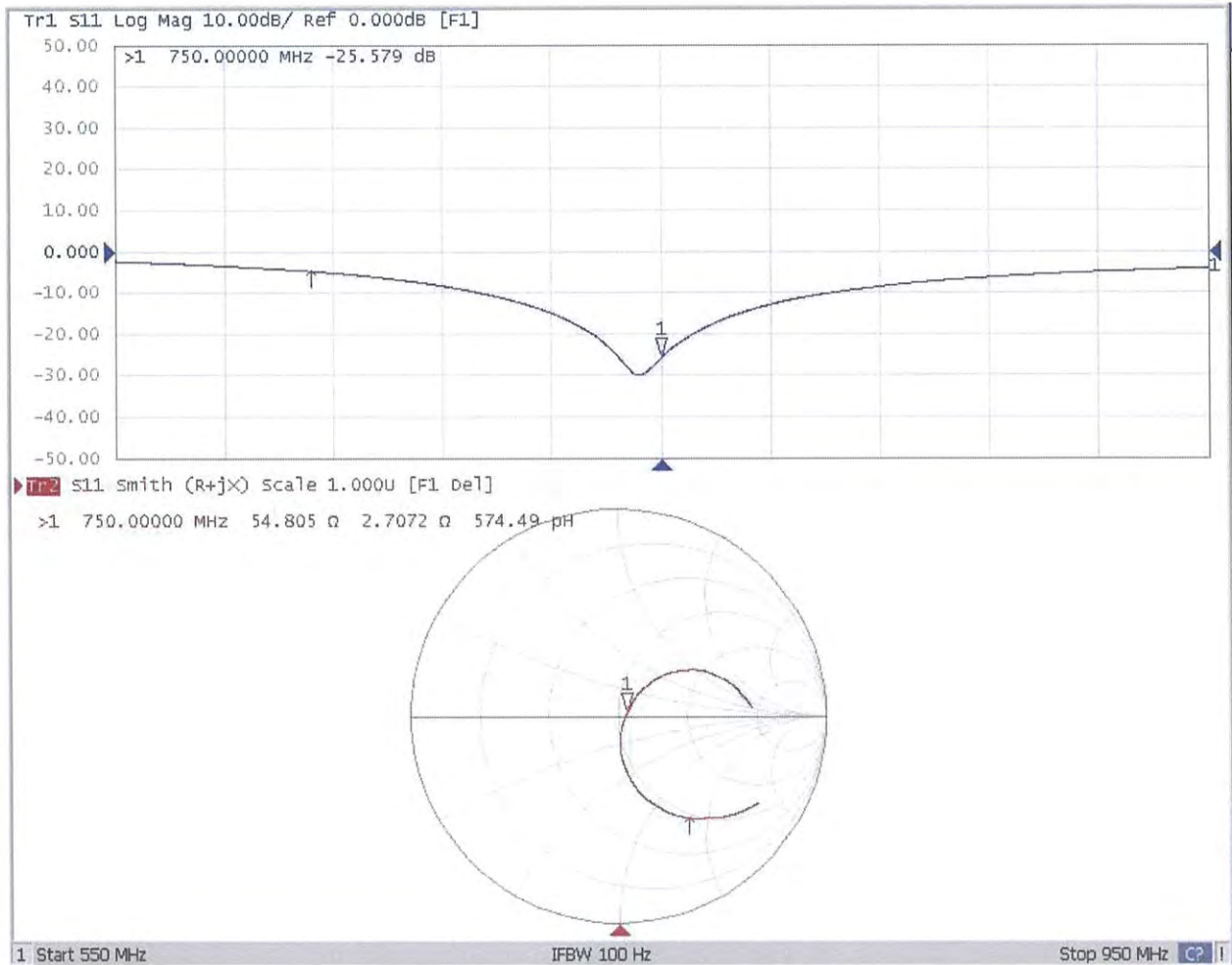
Maximum value of SAR (measured) = 2.72 W/kg



0 dB = 2.72 W/kg = 4.35 dBW/kg

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### Impedance Measurement Plot for Head TSL





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Client **B.V.ADT**

Certificate No: **24J02Z000324**

## CALIBRATION CERTIFICATE

Object **D835V2 - SN: 4d139**

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




Calibration date: **June 16, 2024**

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	106276	17-May-24 (CTTL, No. J24X04107)	May-25
Power sensor NRP6A	101369	17-May-24 (CTTL, No. J24X04107)	May-25
Reference Probe EX3DV4	SN 7307	28-May-24(SPEAG, No. EX-7307_May24)	May-25
DAE4	SN 1556	03-Jan-24(CTTL-SPEAG, No.24J02Z80002)	Jan-25
Secondary Standards	ID #	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Signal Generator E4438C	MY49071430	25-Dec-23 (CTTL, No. J23X13426)	Dec-24
NetworkAnalyzer E5071C	MY46110673	25-Dec-23 (CTTL, No. J23X13425)	Dec-24
OCP DAK-3.5(weighted)	1040	22-Jan-24(SPEAG, No.OCP-DAK3.5-1040_Jan24)	Jan-25

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

Issued: June 22, 2024

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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:

- a) IEC/IEEE 62209-1528, "Measurement Procedure for The Assessment of Specific Absorption Rate of Human Exposure to Radio Frequency Fields from Hand-held and Body-mounted Wireless Communication Devices- Part 1528: Human Models, Instrumentation and Procedures (Frequency range of 4 MHz to 10 GHz)", October 2020
- b) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

### Additional Documentation:

- c) 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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### Measurement Conditions

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

<b>DASY Version</b>	DASY52	V52.10.4
<b>Extrapolation</b>	Advanced Extrapolation	
<b>Phantom</b>	Triple Flat Phantom 5.1C	
<b>Distance Dipole Center - TSL</b>	15 mm	with Spacer
<b>Zoom Scan Resolution</b>	dx, dy, dz = 5 mm	
<b>Frequency</b>	835 MHz $\pm$ 1 MHz	

### Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
<b>Nominal Head TSL parameters</b>	22.0 °C	41.5	0.90 mho/m
<b>Measured Head TSL parameters</b>	(22.0 $\pm$ 0.2) °C	41.0 $\pm$ 6 %	0.88 mho/m $\pm$ 6 %
<b>Head TSL temperature change during test</b>	<1.0 °C	----	----

### SAR result with Head TSL

<b>SAR averaged over 1 cm<sup>3</sup> (1 g) of Head TSL</b>	Condition	
SAR measured	250 mW input power	2.36 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	<b>9.57 W/kg <math>\pm</math> 18.8 % (k=2)</b>
<b>SAR averaged over 10 cm<sup>3</sup> (10 g) of Head TSL</b>	Condition	
SAR measured	250 mW input power	1.56 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	<b>6.31 W/kg <math>\pm</math> 18.7 % (k=2)</b>





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## Appendix (Additional assessments outside the scope of CNAS L0570)

### Antenna Parameters with Head TSL

Impedance, transformed to feed point	49.3Ω- 2.76jΩ
Return Loss	- 30.8dB

### General Antenna Parameters and Design

Electrical Delay (one direction)	1.298 ns
----------------------------------	----------

After long term use with 100W radiated power, only a slight warming of the dipole near the feed-point can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feed-point may be damaged.

### Additional EUT Data

Manufactured by	SPEAG
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**DASY5 Validation Report for Head TSL**

Date: 2024-06-16

Test Laboratory: CTTL, Beijing, China

**DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN: 4d139**

Communication System: UID 0, CW; Frequency: 835 MHz

Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.88 \text{ S/m}$ ;  $\epsilon_r = 40.97$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7307; ConvF(9.48, 9.4, 10) @ 835 MHz; Calibrated: 2024-05-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1556; Calibrated: 2024-01-03
- Phantom: MFP\_V5.1C (20deg probe tilt); Type: QD 000 P51 Cx; Serial: 1062
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

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

Reference Value = 59.29 V/m; Power Drift = -0.02 dB

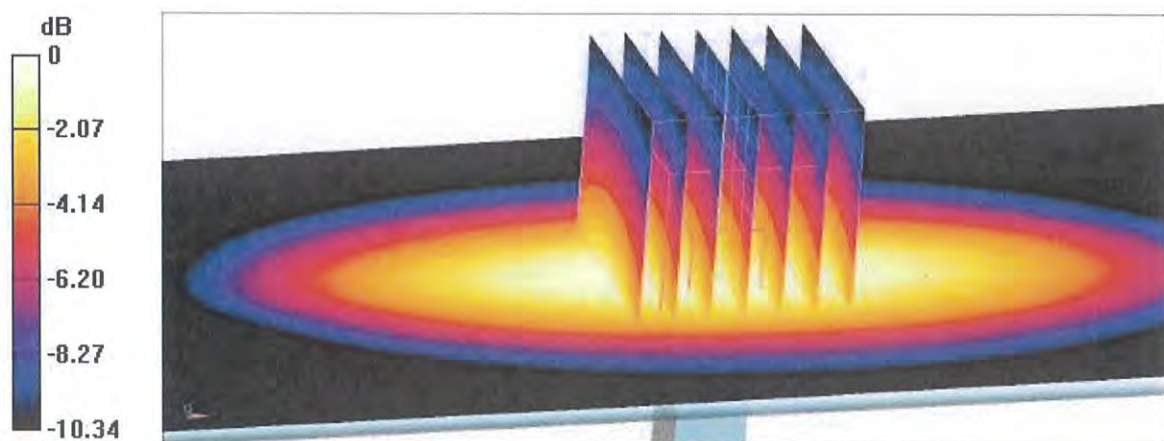
Peak SAR (extrapolated) = 3.39 W/kg

**SAR(1 g) = 2.36 W/kg; SAR(10 g) = 1.56 W/kg**

Smallest distance from peaks to all points 3 dB below = 16.6 mm

Ratio of SAR at M2 to SAR at M1 = 69.5%

Maximum value of SAR (measured) = 3.09 W/kg

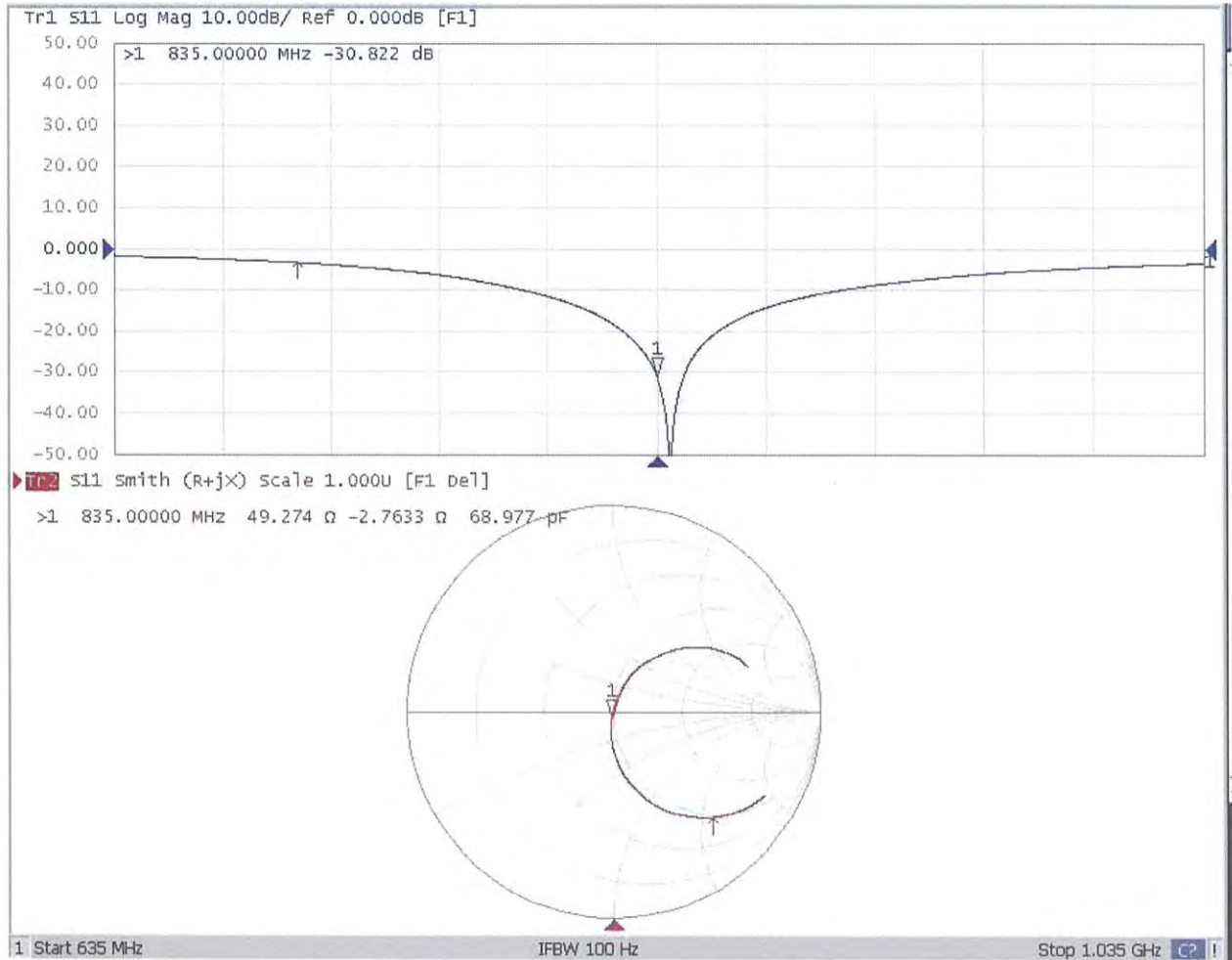


0 dB = 3.09 W/kg = 4.90 dBW/kg



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### Impedance Measurement Plot for Head TSL





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Client **B.V.ADT**

Certificate No: **24J02Z000326**

## CALIBRATION CERTIFICATE

Object **D1750V2 - SN: 1071**

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




Calibration date: **June 17, 2024**

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	106276	17-May-24 (CTTL, No. J24X04107)	May-25
Power sensor NRP6A	101369	17-May-24 (CTTL, No. J24X04107)	May-25
Reference Probe EX3DV4	SN 7307	28-May-24(SPEAG, No. EX-7307_May24)	May-25
DAE4	SN 1556	03-Jan-24(CTTL-SPEAG, No.24J02Z80002)	Jan-25
Secondary Standards	ID #	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Signal Generator E4438C	MY49071430	25-Dec-23 (CTTL, No. J23X13426)	Dec-24
NetworkAnalyzer E5071C	MY46110673	25-Dec-23 (CTTL, No. J23X13425)	Dec-24
OCP DAK-3.5(weighted)	1040	22-Jan-24(SPEAG, No.OCP-DAK3.5-1040_Jan24)	Jan-25

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

Issued: June 22, 2024

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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:

- a) IEC/IEEE 62209-1528, "Measurement Procedure for The Assessment of Specific Absorption Rate of Human Exposure to Radio Frequency Fields from Hand-held and Body-mounted Wireless Communication Devices- Part 1528: Human Models, Instrumentation and Procedures (Frequency range of 4 MHz to 10 GHz)", October 2020
- b) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

### Additional Documentation:

- c) 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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### Measurement Conditions

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

<b>DASY Version</b>	DASY52	52.10.4
<b>Extrapolation</b>	Advanced Extrapolation	
<b>Phantom</b>	Triple Flat Phantom 5.1C	
<b>Distance Dipole Center - TSL</b>	10 mm	with Spacer
<b>Zoom Scan Resolution</b>	dx, dy, dz = 5 mm	
<b>Frequency</b>	1750 MHz ± 1 MHz	

### Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
<b>Nominal Head TSL parameters</b>	22.0 °C	40.1	1.37 mho/m
<b>Measured Head TSL parameters</b>	(22.0 ± 0.2) °C	40.7 ± 6 %	1.40 mho/m ± 6 %
<b>Head TSL temperature change during test</b>	<1.0 °C	----	----

### SAR result with Head TSL

<b>SAR averaged over 1 cm<sup>3</sup> (1 g) of Head TSL</b>	Condition	
SAR measured	250 mW input power	9.17 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	<b>36.3 W/kg ± 18.8 % (k=2)</b>
<b>SAR averaged over 10 cm<sup>3</sup> (10 g) of Head TSL</b>	Condition	
SAR measured	250 mW input power	4.92 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	<b>19.5 W/kg ± 18.7 % (k=2)</b>





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## Appendix (Additional assessments outside the scope of CNAS L0570)

### Antenna Parameters with Head TSL

Impedance, transformed to feed point	47.8Ω- 0.77jΩ
Return Loss	- 32.3dB

### General Antenna Parameters and Design

Electrical Delay (one direction)	1.126 ns
----------------------------------	----------

After long term use with 100W radiated power, only a slight warming of the dipole near the feed-point can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feed-point may be damaged.

### Additional EUT Data

Manufactured by	SPEAG
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**DASY5 Validation Report for Head TSL**

Date: 2024-06-17

Test Laboratory: CTTL, Beijing, China

**DUT: Dipole 1750 MHz; Type: D1750V2; Serial: D1750V2 - SN: 1071**

Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.401$  S/m;  $\epsilon_r = 40.73$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7307; ConvF(7.9, 7.9, 8.54) @ 1750 MHz; Calibrated: 2024-05-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1556; Calibrated: 2024-01-03
- Phantom: MFP\_V5.1C (20deg probe tilt); Type: QD 000 P51 Cx; Serial: 1062
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

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

Reference Value = 95.64 V/m; Power Drift = -0.01 dB

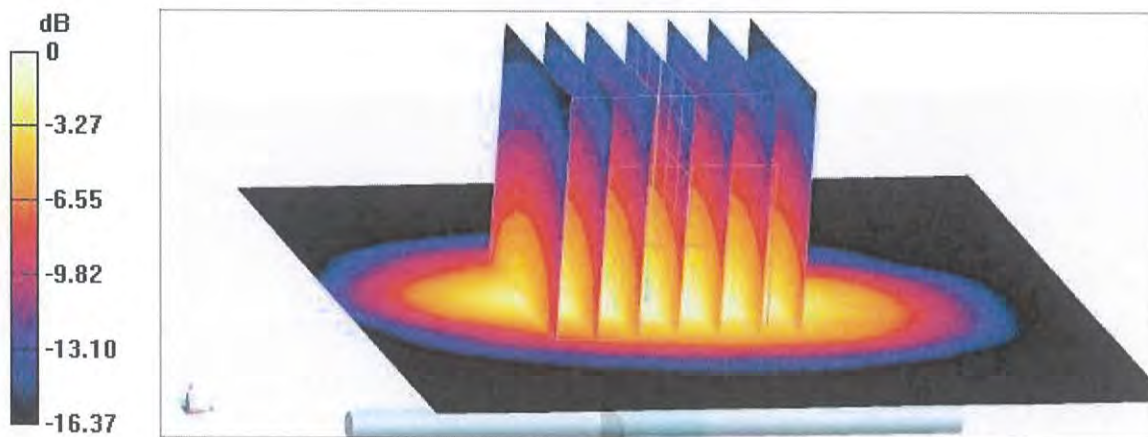
Peak SAR (extrapolated) = 16.3 W/kg

**SAR(1 g) = 9.17 W/kg; SAR(10 g) = 4.92 W/kg**

Smallest distance from peaks to all points 3 dB below = 9.5 mm

Ratio of SAR at M2 to SAR at M1 = 56.9%

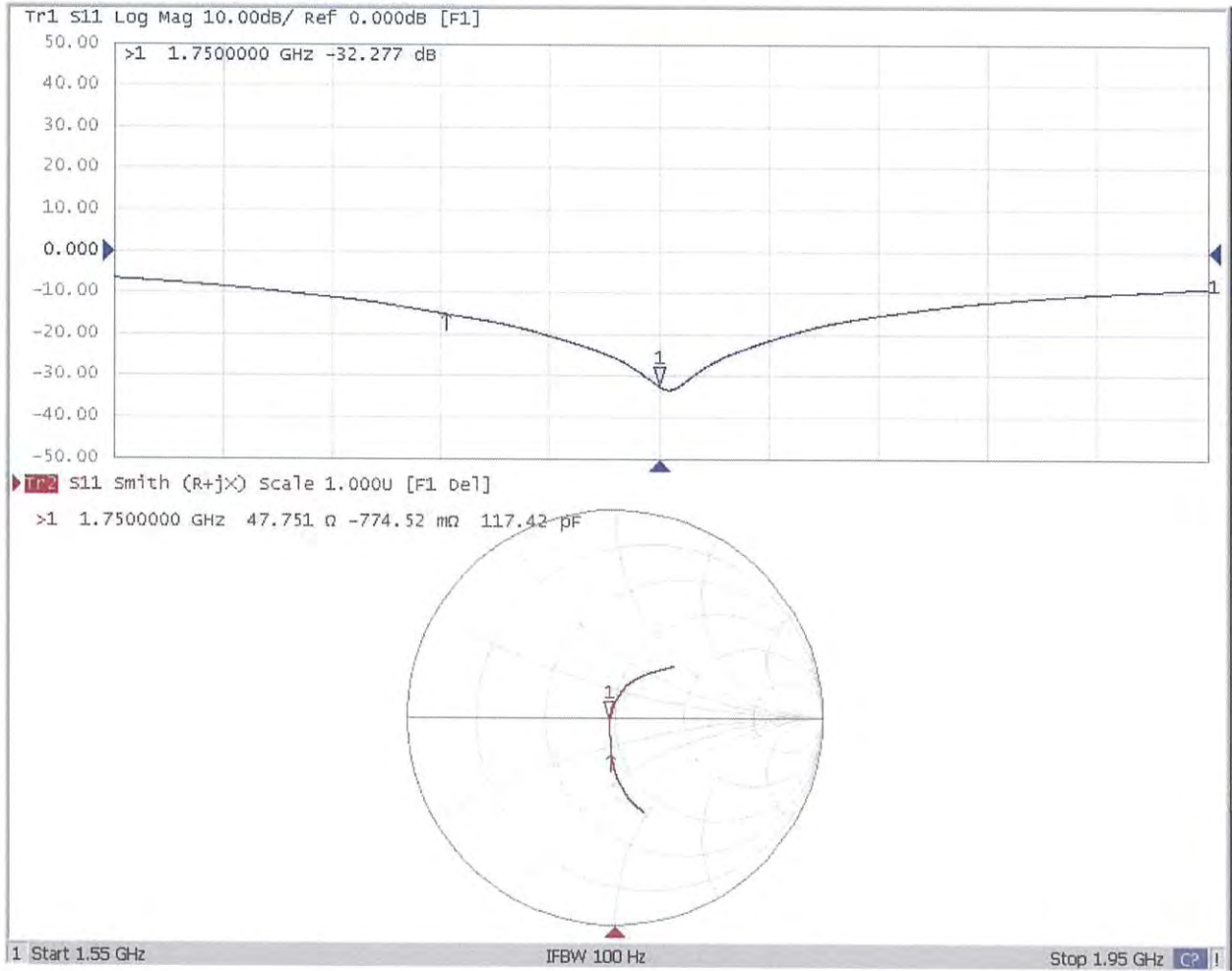
Maximum value of SAR (measured) = 13.9 W/kg





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### Impedance Measurement Plot for Head TSL





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**Client:** B.V.ADT

**Certificate No:** 24J02Z000327

## CALIBRATION CERTIFICATE

**Object** D1900V2 - SN: 5d159

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

**Calibration date:** June 15, 2024

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	106276	17-May-24 (CTTL, No. J24X04107)	May-25
Power sensor NRP6A	101369	17-May-24 (CTTL, No. J24X04107)	May-25
Reference Probe EX3DV4	SN 7307	28-May-24(SPEAG, No. EX-7307_May24)	May-25
DAE4	SN 1556	03-Jan-24(CTTL-SPEAG, No.24J02Z80002)	Jan-25
Secondary Standards	ID #	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Signal Generator E4438C	MY49071430	25-Dec-23 (CTTL, No. J23X13426)	Dec-24
NetworkAnalyzer E5071C	MY46110673	25-Dec-23 (CTTL, No. J23X13425)	Dec-24
OCP DAK-3.5(weighted)	1040	22-Jan-24(SPEAG, No.OCP-DAK3.5-1040_Jan24)	Jan-25

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

Issued: June 22, 2024

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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:

- a) IEC/IEEE 62209-1528, "Measurement Procedure for The Assessment of Specific Absorption Rate of Human Exposure to Radio Frequency Fields from Hand-held and Body-mounted Wireless Communication Devices- Part 1528: Human Models, Instrumentation and Procedures (Frequency range of 4 MHz to 10 GHz)", October 2020
- b) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

### Additional Documentation:

- c) DAS4/5 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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### Measurement Conditions

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

<b>DASY Version</b>	DASY52	52.10.4
<b>Extrapolation</b>	Advanced Extrapolation	
<b>Phantom</b>	Triple Flat Phantom 5.1C	
<b>Distance Dipole Center - TSL</b>	10 mm	with Spacer
<b>Zoom Scan Resolution</b>	dx, dy, dz = 5 mm	
<b>Frequency</b>	1900 MHz ± 1 MHz	

### Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
<b>Nominal Head TSL parameters</b>	22.0 °C	40.0	1.40 mho/m
<b>Measured Head TSL parameters</b>	(22.0 ± 0.2) °C	41.2 ± 6 %	1.41 mho/m ± 6 %
<b>Head TSL temperature change during test</b>	<1.0 °C	----	----

### SAR result with Head TSL

<b>SAR averaged over 1 cm<sup>3</sup> (1 g) of Head TSL</b>	Condition	
SAR measured	250 mW input power	9.92 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	<b>39.8 W/kg ± 18.8 % (k=2)</b>
<b>SAR averaged over 10 cm<sup>3</sup> (10 g) of Head TSL</b>	Condition	
SAR measured	250 mW input power	5.21 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	<b>20.9 W/kg ± 18.7 % (k=2)</b>