

**10\_LTE Band66\_20M\_QPSK\_1RB\_49Offset\_Right Cheek\_0mm\_Ch132572**

Communication System: UID 0, LTE-FDD (0); Frequency: 1770 MHz; Duty Cycle: 1:1

Medium: HSL\_1750 Medium parameters used:  $f = 1770$  MHz;  $\sigma = 1.398$  S/m;  $\epsilon_r = 41.041$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.2 °C ; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: ES3DV3 - SN3293; ConvF(5.4, 5.4, 5.4); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Ch132572/Area Scan (71x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.199 W/kg

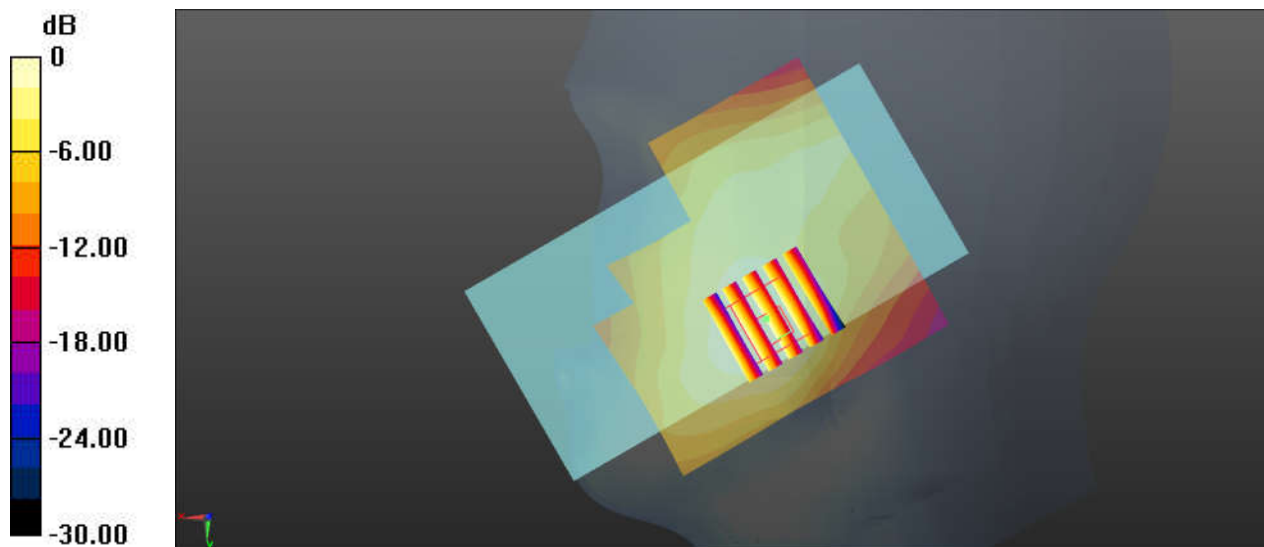
**Ch132572/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.602 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.238 W/kg

**SAR(1 g) = 0.172 W/kg; SAR(10 g) = 0.114 W/kg**

Maximum value of SAR (measured) = 0.190 W/kg



0 dB = 0.199 W/kg = -7.01 dBW/kg

**11\_LTE Band2\_20M\_QPSK\_1RB\_0Offset\_Left Cheek\_0mm\_Ch18900**

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

Medium: HSL\_1900 Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.416$  S/m;  $\epsilon_r = 39.054$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.3 °C ; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: ES3DV3 - SN3293; ConvF(5.19, 5.19, 5.19); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM2; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Ch18900/Area Scan (71x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.345 W/kg

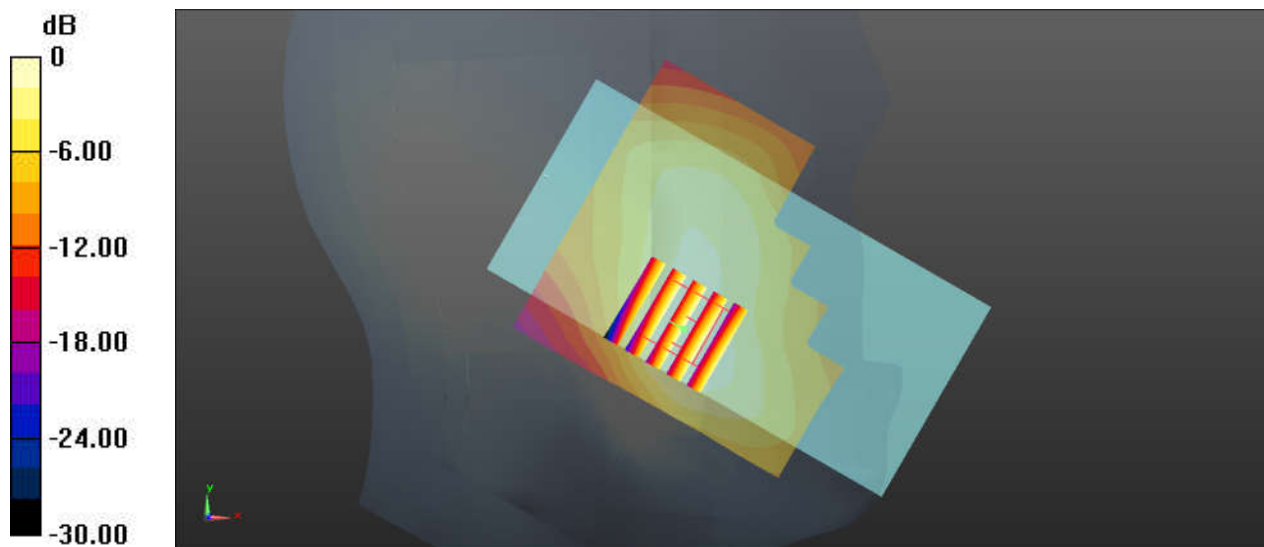
**Ch18900/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.948 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.428 W/kg

**SAR(1 g) = 0.283 W/kg; SAR(10 g) = 0.181 W/kg**

Maximum value of SAR (measured) = 0.325 W/kg



0 dB = 0.345 W/kg = -4.62 dBW/kg

**12\_LTE Band7\_20M\_QPSK\_1RB\_0Offset\_Right Cheek\_0mm\_Ch21350**

Communication System: UID 0, LTE-FDD (0); Frequency: 2560 MHz; Duty Cycle: 1:1

Medium: HSL\_2600 Medium parameters used:  $f = 2560$  MHz;  $\sigma = 1.989$  S/m;  $\epsilon_r = 38.779$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C ; Liquid Temperature : 22.8 °C

DASY5 Configuration:

- Probe: ES3DV3 - SN3293; ConvF(4.44, 4.44, 4.44); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM2; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Ch21350/Area Scan (81x81x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.41 W/kg

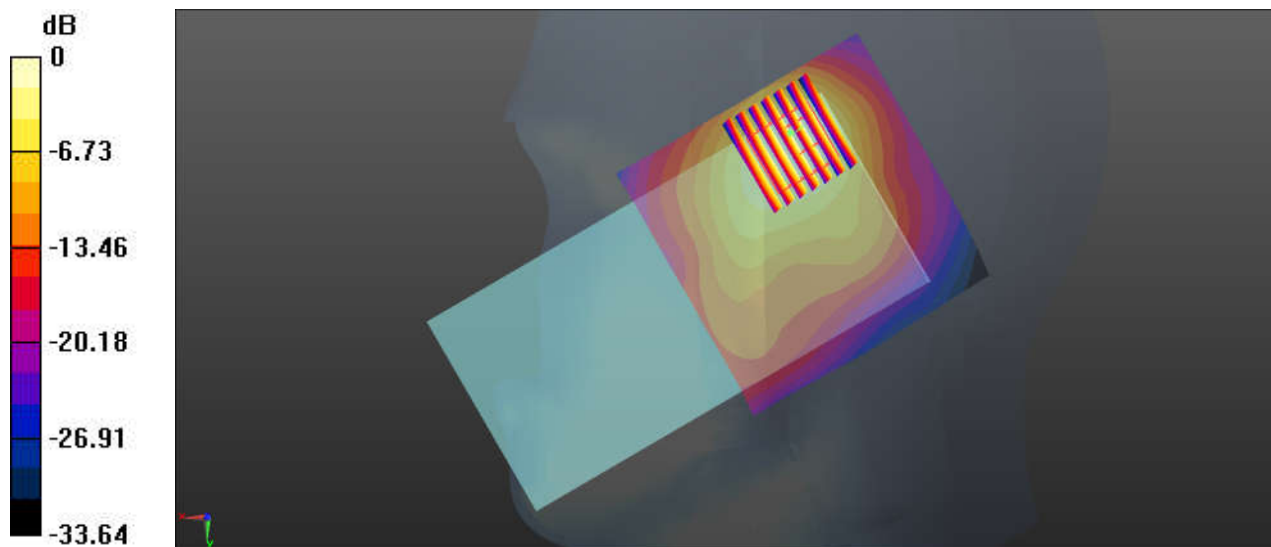
**Ch21350/Zoom Scan (8x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.178 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 2.32 W/kg

**SAR(1 g) = 1.05 W/kg; SAR(10 g) = 0.521 W/kg**

Maximum value of SAR (measured) = 1.38 W/kg



0 dB = 1.41 W/kg = 1.49 dBW/kg

**13\_LTE Band28\_20M\_QPSK\_1RB\_99Offset\_Right Cheek\_0mm\_Ch27410**

Communication System: UID 0, LTE-FDD (0); Frequency: 723 MHz; Duty Cycle: 1:1  
Medium: HSL\_750 Medium parameters used:  $f = 723$  MHz;  $\sigma = 0.876$  S/m;  $\epsilon_r = 41.593$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.4 °C ; Liquid Temperature : 22.7 °C

## DASY5 Configuration:

- Probe: ES3DV3 - SN3293; ConvF(6.78, 6.78, 6.78); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Ch27410/Area Scan (71x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

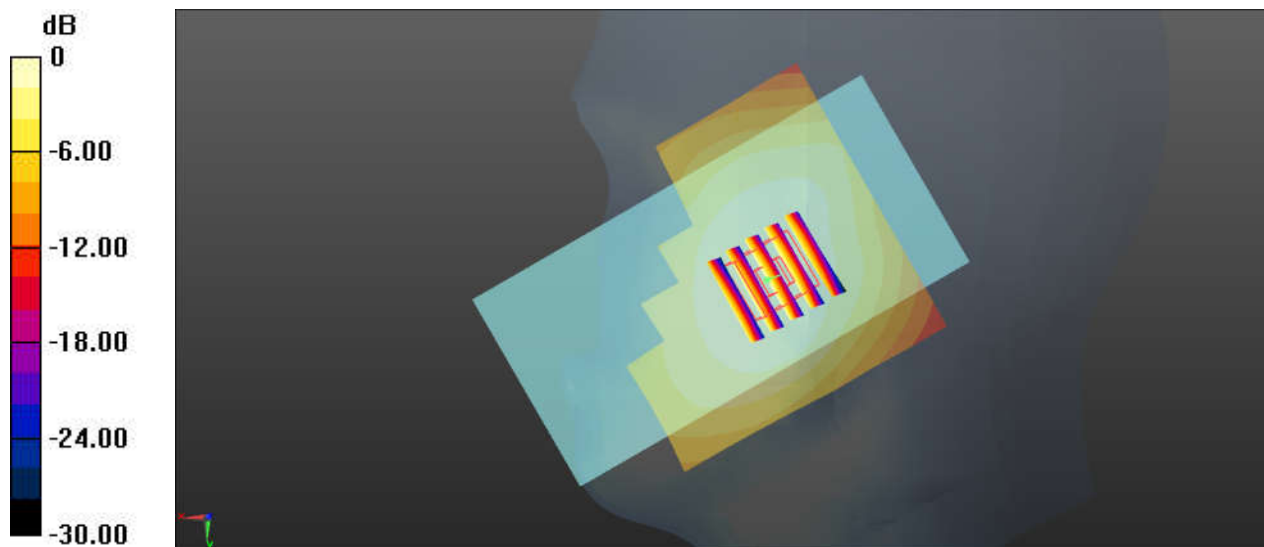
**Ch27410/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.063 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.142 W/kg

**SAR(1 g) = 0.119 W/kg; SAR(10 g) = 0.096 W/kg**

Maximum value of SAR (measured) = 0.128 W/kg



0 dB = 0.130 W/kg = -8.86 dBW/kg

**14\_WLAN2.4GHz\_802.11b 1Mbps\_Left Cheek\_Ant1\_0mm\_Ch11**

Communication System: UID 0, 802.11b (0); Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: HSL\_2450 Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.863$  S/m;  $\epsilon_r = 38.56$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.4 °C ; Liquid Temperature : 22.8 °C

DASY5 Configuration:

- Probe: ES3DV3 - SN3293; ConvF(4.53, 4.53, 4.53); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Ch11/Area Scan (91x71x1):** Interpolated grid:  $dx=1.200$  mm,  $dy=1.200$  mm

Maximum value of SAR (interpolated) = 1.52 W/kg

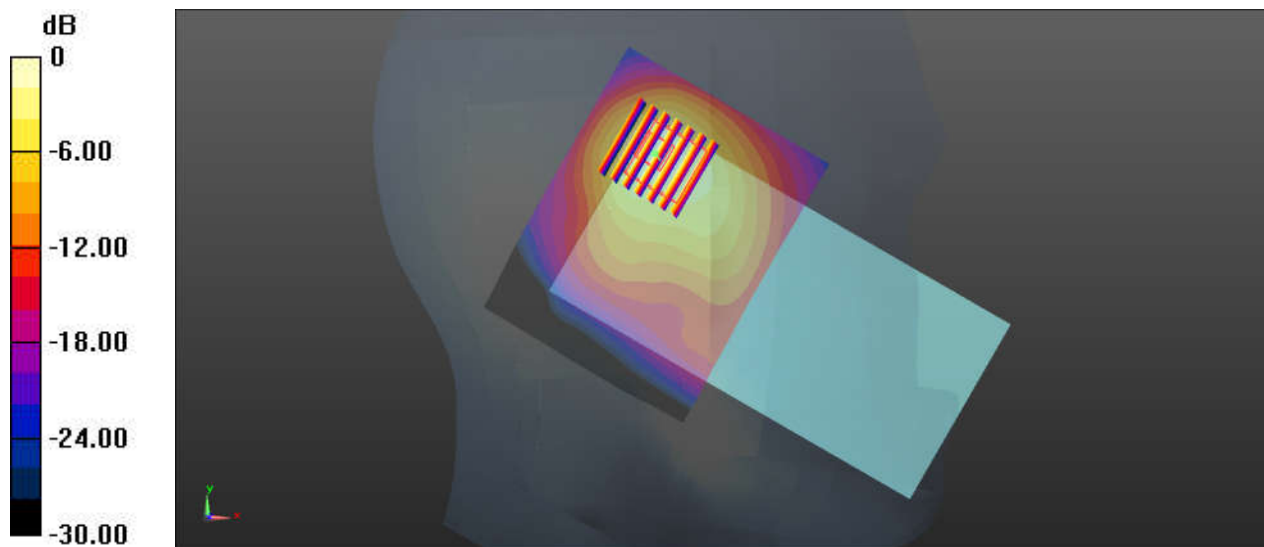
**Ch11/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 1.341 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 2.51 W/kg

**SAR(1 g) = 1.02 W/kg; SAR(10 g) = 0.480 W/kg**

Maximum value of SAR (measured) = 1.33 W/kg



0 dB = 1.52 W/kg = 1.82 dBW/kg

**15\_Bluetooth\_1Mbps\_Left Cheek\_0mm\_Ch78**

Communication System: UID 0, Bluetooth (0); Frequency: 2480 MHz; Duty Cycle: 1:1.302

Medium: HSL\_2450 Medium parameters used:  $f = 2480$  MHz;  $\sigma = 1.885$  S/m;  $\epsilon_r = 38.486$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.4 °C ; Liquid Temperature : 22.8 °C

DASY5 Configuration:

- Probe: ES3DV3 - SN3293; ConvF(4.53, 4.53, 4.53); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Ch78/Area Scan (81x71x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.244 W/kg

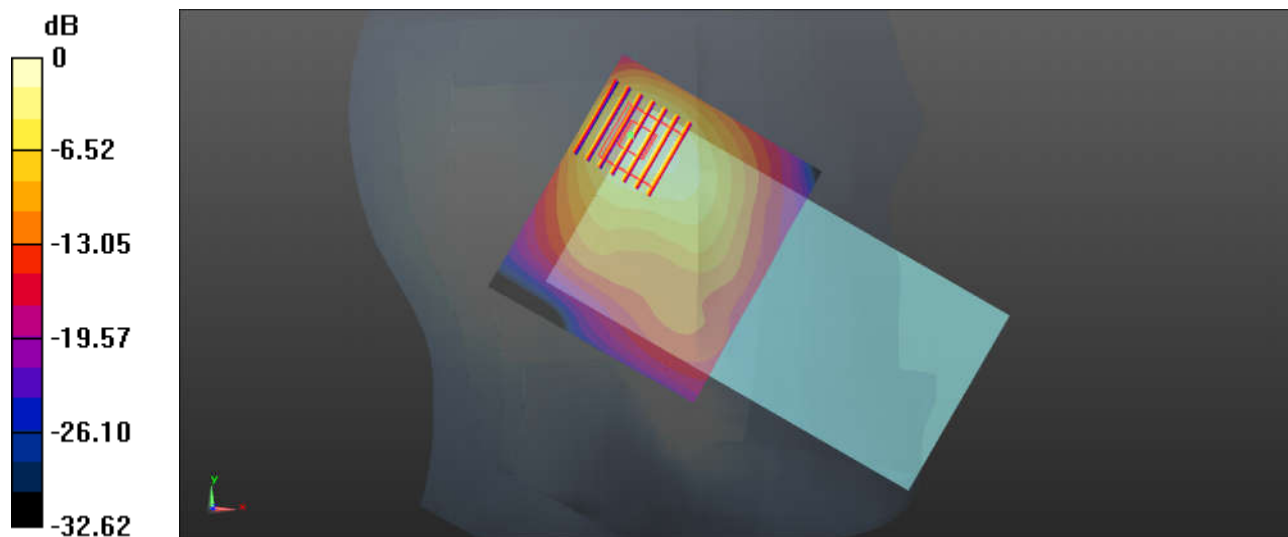
**Ch78/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.547 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.402 W/kg

**SAR(1 g) = 0.174 W/kg; SAR(10 g) = 0.083 W/kg**

Maximum value of SAR (measured) = 0.230 W/kg



0 dB = 0.230 W/kg = -6.38 dBW/kg

**16\_WLAN5GHz\_802.11a 6Mbps\_Left Tilted\_0mm\_Ch56**

Communication System: UID 0, 802.11a (0); Frequency: 5280 MHz; Duty Cycle: 1:1.049

Medium: HSL\_5000 Medium parameters used:  $f = 5280$  MHz;  $\sigma = 4.632$  S/m;  $\epsilon_r = 36.643$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.3 °C ; Liquid Temperature : 22.8 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3954; ConvF(4.98, 4.98, 4.98); Calibrated: 2019.4.25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2018.12.3
- Phantom: SAM1; Type: SAM; Serial: TP-1697
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Ch56/Area Scan (101x81x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.54 W/kg

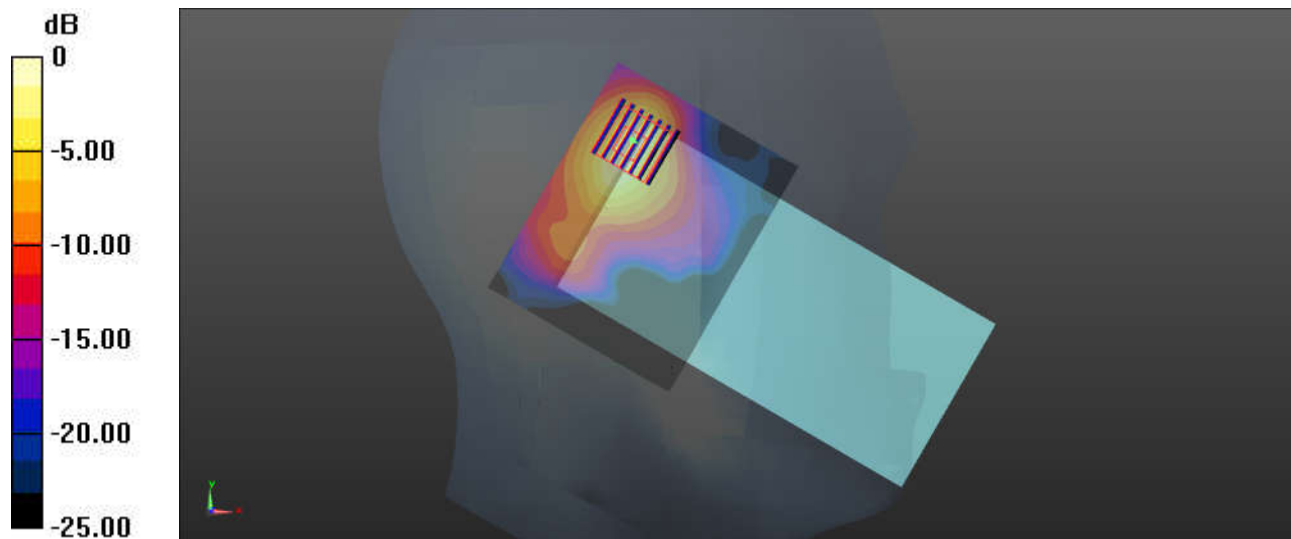
**Ch56/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 8.823 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 2.51 W/kg

**SAR(1 g) = 0.610 W/kg; SAR(10 g) = 0.206 W/kg**

Maximum value of SAR (measured) = 1.54 W/kg



0 dB = 1.54 W/kg = 1.88 dBW/kg

**17\_WLAN5GHz\_802.11a 6Mbps\_Left Cheek\_0mm\_Ch100**

Communication System: UID 0, 802.11a (0); Frequency: 5500 MHz; Duty Cycle: 1:1.049

Medium: HSL\_5000 Medium parameters used:  $f = 5500$  MHz;  $\sigma = 4.886$  S/m;  $\epsilon_r = 36.148$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.3 °C ; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3954; ConvF(4.51, 4.51, 4.51); Calibrated: 2019.4.25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2018.12.3
- Phantom: SAM1; Type: SAM; Serial: TP-1697
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Ch100/Area Scan (101x81x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.343 W/kg

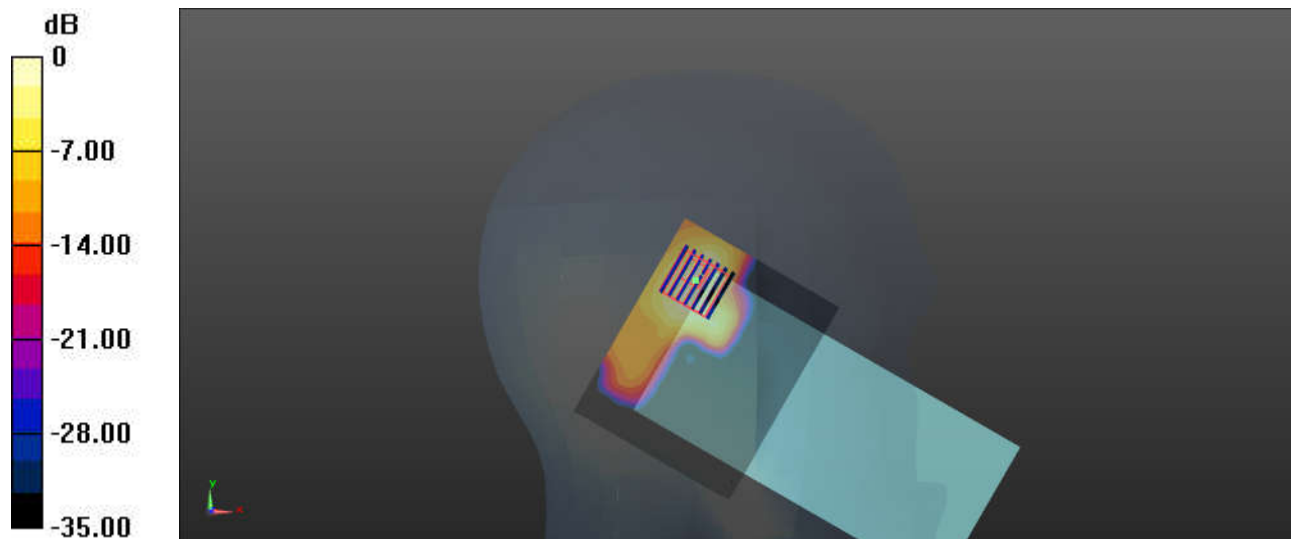
**Ch100/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 2.444 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.747 W/kg

**SAR(1 g) = 0.188 W/kg; SAR(10 g) = 0.076 W/kg**

Maximum value of SAR (measured) = 0.462 W/kg



0 dB = 0.343 W/kg = -4.65 dBW/kg



**18\_WLAN5GHz\_802.11a 6Mbps\_Left Cheek\_0mm\_Ch165**

Communication System: UID 0, 802.11a (0); Frequency: 5825 MHz; Duty Cycle: 1:1.049

Medium: HSL\_5000 Medium parameters used:  $f = 5825$  MHz;  $\sigma = 5.276$  S/m;  $\epsilon_r = 35.454$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.8 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3954; ConvF(4.65, 4.65, 4.65); Calibrated: 2019.4.25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2018.12.3
- Phantom: SAM1; Type: SAM; Serial: TP-1697
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Ch165/Area Scan (101x81x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.449 W/kg

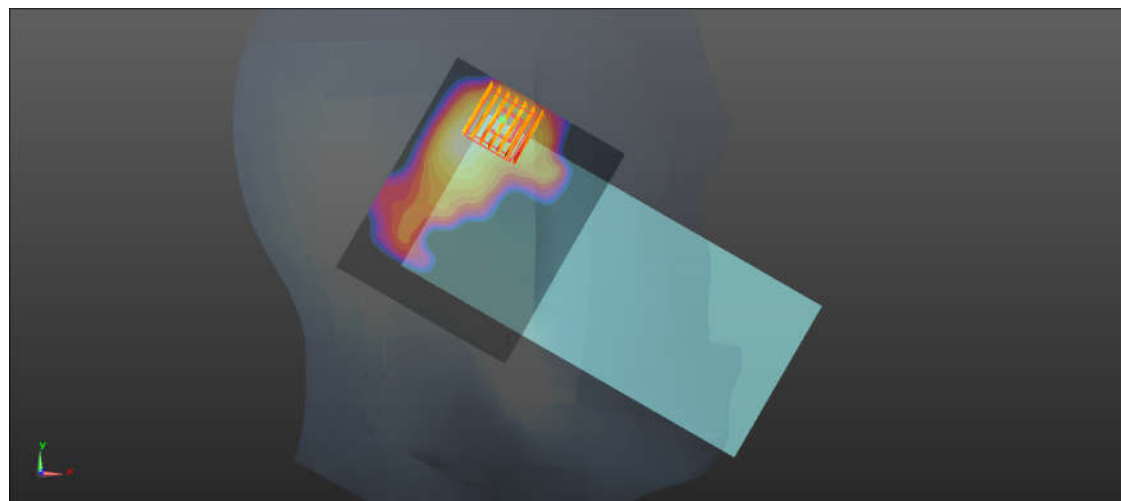
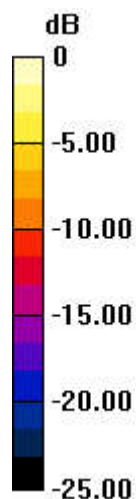
**Ch165/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 2.324 V/m; Power Drift = 0.05dB

Peak SAR (extrapolated) = 0.502 W/kg

**SAR(1 g) = 0.164 W/kg; SAR(10 g) = 0.012 W/kg**

Maximum value of SAR (measured) = 0.424 W/kg



0 dB = 0.449 W/kg = -3.48 dBW/kg

**19\_GSM850\_GPRS 3 Tx slots\_Back\_10mm\_Ch189**

Communication System: UID 0, GSM850-3UP (0); Frequency: 836.4 MHz; Duty Cycle: 1:2.77  
Medium: HSL\_850 Medium parameters used:  $f = 836.4$  MHz;  $\sigma = 0.922$  S/m;  $\epsilon_r = 42.532$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.4 °C ; Liquid Temperature : 22.8 °C

**DASY5 Configuration:**

- Probe: ES3DV3 - SN3293; ConvF(6.47, 6.47, 6.47); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM2; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Ch189/Area Scan (71x91x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 0.396 W/kg

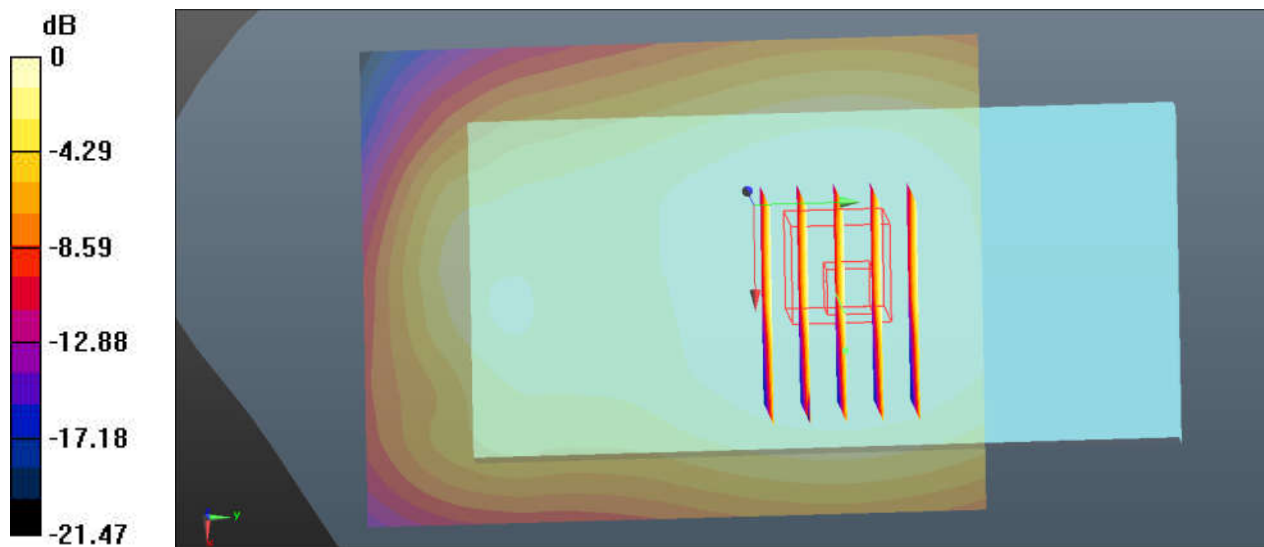
**Ch189/Zoom Scan (7x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 21.30 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.633 W/kg

**SAR(1 g) = 0.497 W/kg; SAR(10 g) = 0.385 W/kg**

Maximum value of SAR (measured) = 0.537 W/kg



0 dB = 0.396 W/kg = -4.02 dBW/kg

**20\_GSM1900\_GPRS 3 Tx slots\_Back\_10mm\_Ch810**

Communication System: UID 0, PCS (0); Frequency: 1909.8 MHz; Duty Cycle: 1:2.77  
Medium: HSL\_1900 Medium parameters used:  $f = 1910$  MHz;  $\sigma = 1.449$  S/m;  $\epsilon_r = 38.92$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.3 °C ; Liquid Temperature : 22.7 °C

## DASY5 Configuration:

- Probe: ES3DV3 - SN3293; ConvF(5.19, 5.19, 5.19); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM2; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Ch810/Area Scan (71x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.889 W/kg

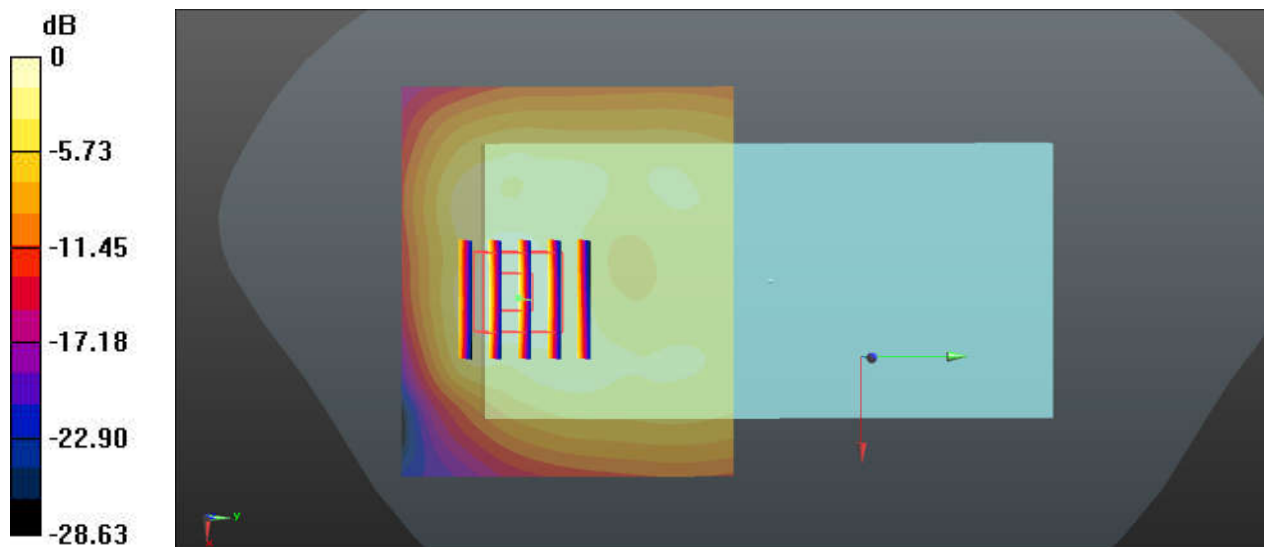
**Ch810/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.22 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.40 W/kg

**SAR(1 g) = 0.755 W/kg; SAR(10 g) = 0.399 W/kg**

Maximum value of SAR (measured) = 0.918 W/kg



0 dB = 0.889 W/kg = -0.51 dBW/kg

**21\_WCDMA V\_RMC 12.2Kbps\_Back\_10mm\_Ch4182**

Communication System: UID 0, WCDMA (0); Frequency: 836.4 MHz; Duty Cycle: 1:1  
Medium: HSL\_835 Medium parameters used:  $f = 836.4$  MHz;  $\sigma = 0.922$  S/m;  $\epsilon_r = 42.532$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.4 °C ; Liquid Temperature : 22.8 °C

## DASY5 Configuration:

- Probe: ES3DV3 - SN3293; ConvF(6.47, 6.47, 6.47); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM2; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Ch4182/Area Scan (71x91x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.356 W/kg

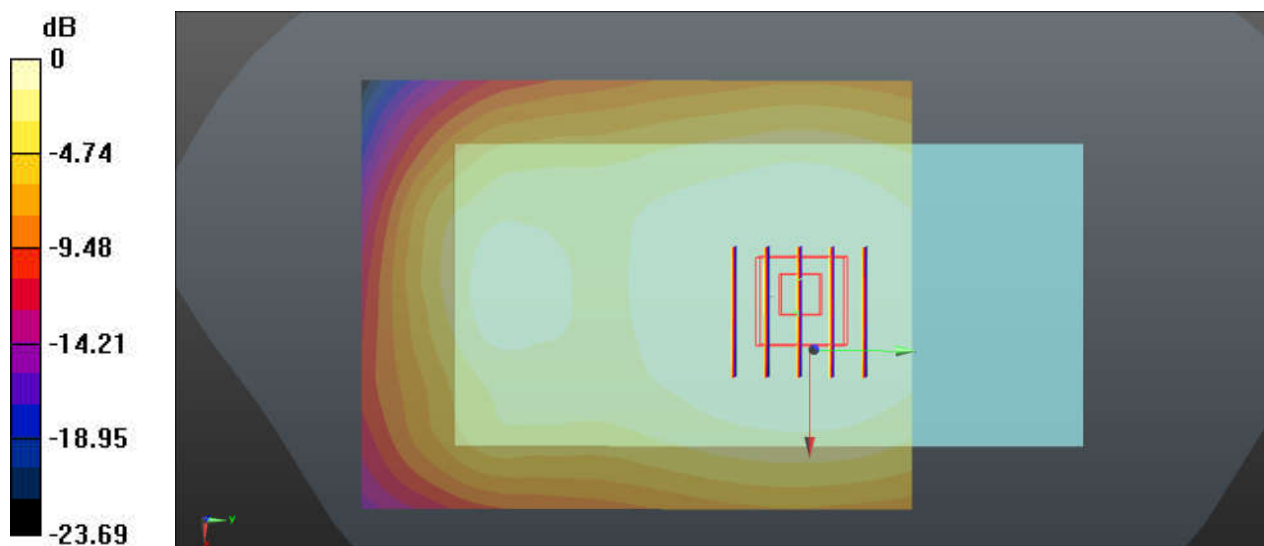
**Ch4182/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.71 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.396 W/kg

**SAR(1 g) = 0.289 W/kg; SAR(10 g) = 0.222 W/kg**

Maximum value of SAR (measured) = 0.356 W/kg



0 dB = 0.356 W/kg = -4.49 dBW/kg

**22\_WCDMA II\_RMC 12.2Kbps\_Bottom Side\_10mm\_Ch9262**

Communication System: UID 0, WCDMA (0); Frequency: 1852.4 MHz; Duty Cycle: 1:1  
Medium: HSL\_1900 Medium parameters used:  $f = 1852.4$  MHz;  $\sigma = 1.388$  S/m;  $\epsilon_r = 39.178$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.3 °C ; Liquid Temperature : 22.7 °C

## DASY5 Configuration:

- Probe: ES3DV3 - SN3293; ConvF(5.19, 5.19, 5.19); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM2; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Ch9262/Area Scan (41x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.30 W/kg

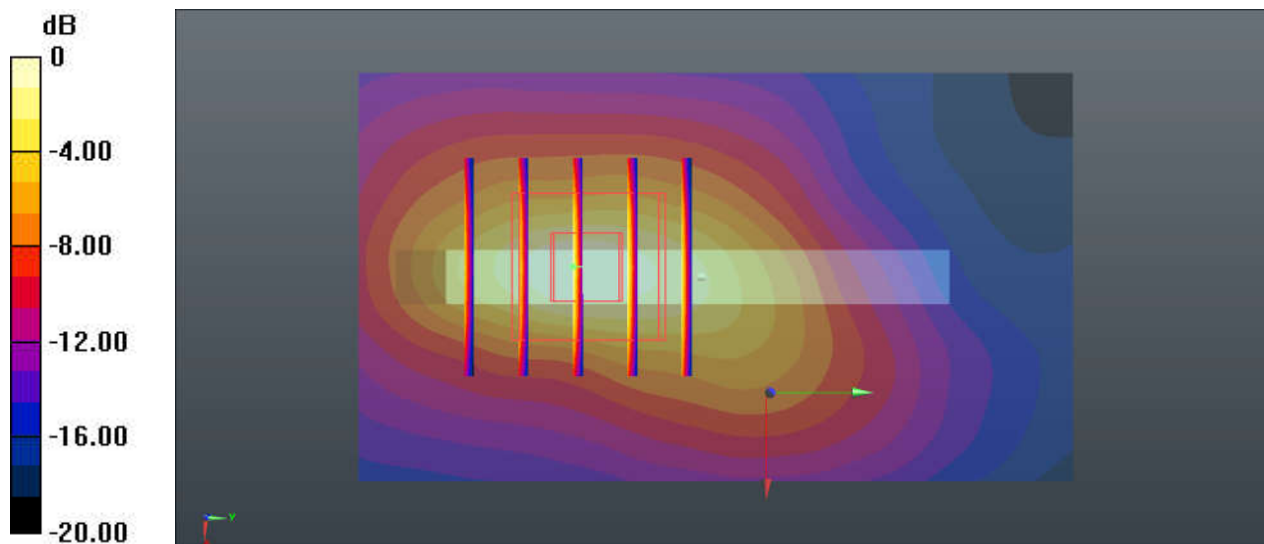
**Ch9262/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.57 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 1.56 W/kg

**SAR(1 g) = 0.826 W/kg; SAR(10 g) = 0.407 W/kg**

Maximum value of SAR (measured) = 1.31 W/kg



0 dB = 1.30 W/kg = 1.14 dBW/kg

**23\_WCDMA IV\_RMC 12.2Kbps\_Bottom Side\_10mm\_Ch1312**

Communication System: UID 0, WCDMA (0); Frequency: 1712.4 MHz; Duty Cycle: 1:1  
Medium: HSL\_1750 Medium parameters used:  $f = 1712.4$  MHz;  $\sigma = 1.336$  S/m;  $\epsilon_r = 41.312$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.2 °C ; Liquid Temperature : 22.7 °C

**DASY5 Configuration:**

- Probe: ES3DV3 - SN3293; ConvF(5.4, 5.4, 5.4); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Ch1312/Area Scan (41x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.65 W/kg

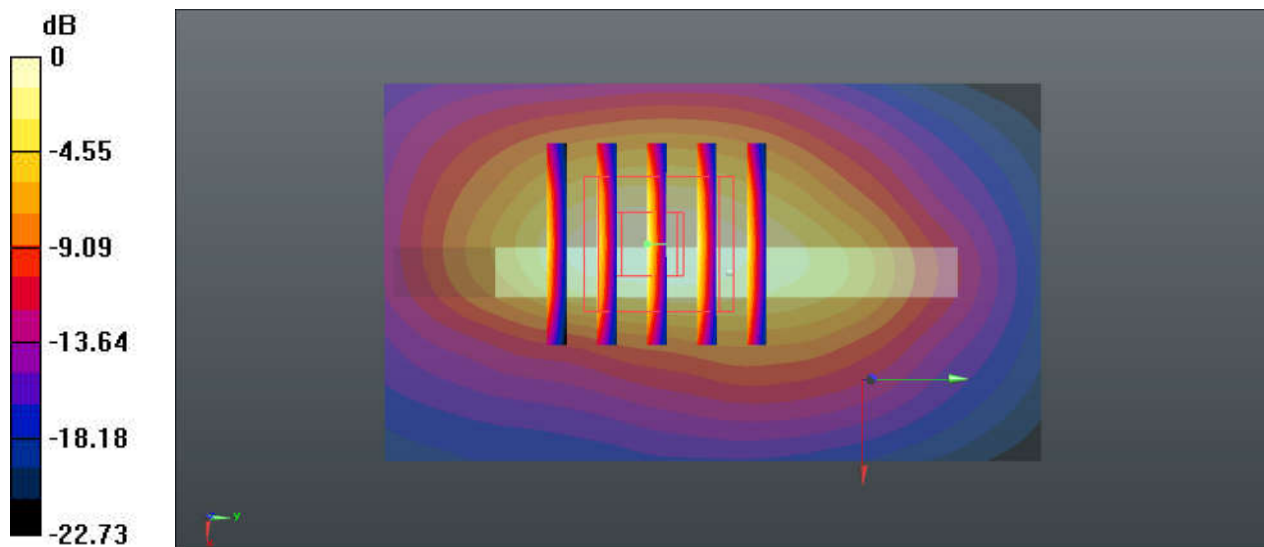
**Ch1312/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 30.22 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.96 W/kg

**SAR(1 g) = 1.09 W/kg; SAR(10 g) = 0.573 W/kg**

Maximum value of SAR (measured) = 1.65 W/kg



0 dB = 1.65 W/kg = 2.17 dBW/kg

**24\_LTE Band12\_10M\_QPSK\_1RB\_49Offset\_Back\_10mm\_Ch23095**

Communication System: UID 0, LTE-FDD (0); Frequency: 707.5 MHz; Duty Cycle: 1:1  
Medium: HSL\_750 Medium parameters used:  $f = 707.5$  MHz;  $\sigma = 0.863$  S/m;  $\epsilon_r = 41.811$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.4 °C ; Liquid Temperature : 22.7 °C

## DASY5 Configuration:

- Probe: ES3DV3 - SN3293; ConvF(6.78, 6.78, 6.78); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Ch23095/Area Scan (71x91x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.157 W/kg

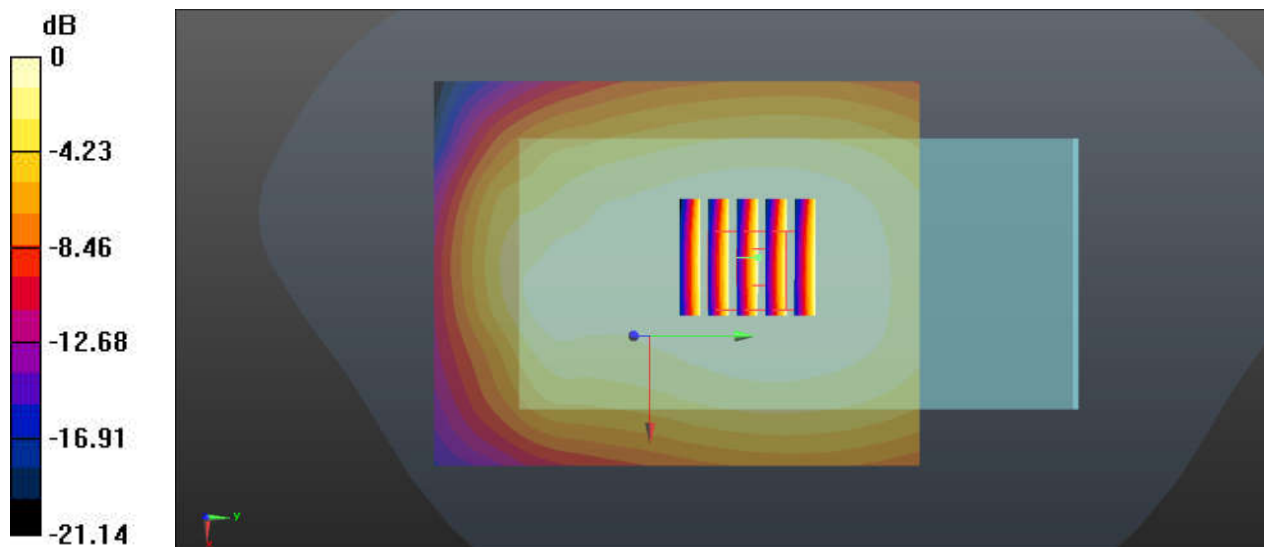
**Ch23095/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.83 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.170 W/kg

**SAR(1 g) = 0.130 W/kg; SAR(10 g) = 0.102 W/kg**

Maximum value of SAR (measured) = 0.156 W/kg



**25\_LTE Band5\_10M\_QPSK\_1RB\_25Offset\_Back\_10mm\_Ch20525**

Communication System: UID 0, LTE-FDD (0); Frequency: 836.5 MHz; Duty Cycle: 1:1  
Medium: HSL\_835 Medium parameters used:  $f = 836.5$  MHz;  $\sigma = 0.922$  S/m;  $\epsilon_r = 42.531$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.4 °C ; Liquid Temperature : 22.8 °C

## DASY5 Configuration:

- Probe: ES3DV3 - SN3293; ConvF(6.47, 6.47, 6.47); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM2; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Ch20525/Area Scan (71x91x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.321 W/kg

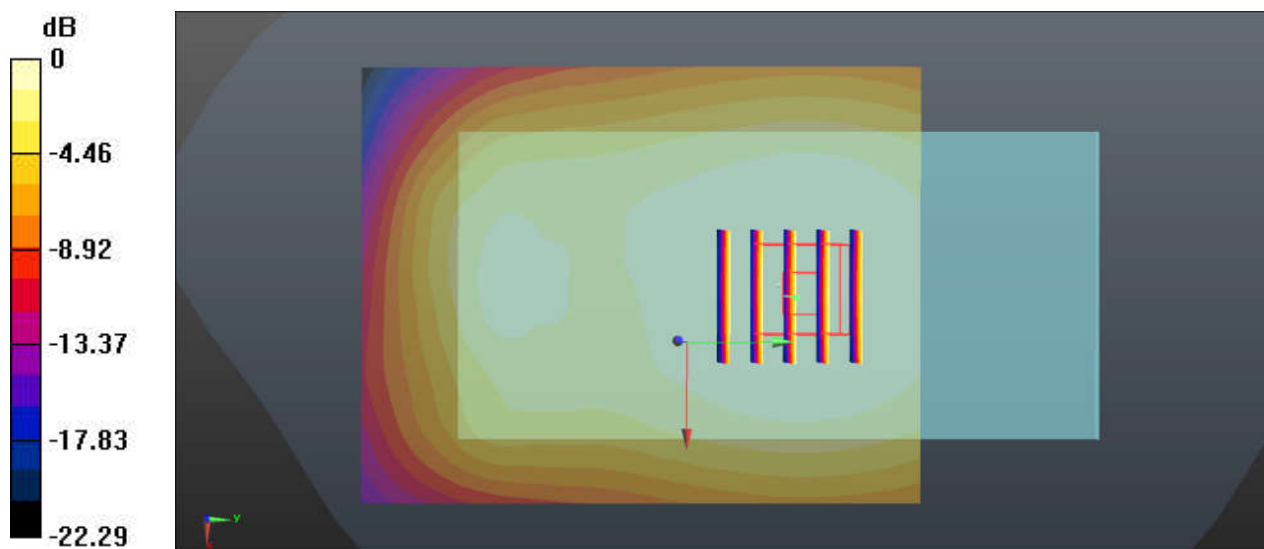
**Ch20525/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.02 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.357 W/kg

**SAR(1 g) = 0.263 W/kg; SAR(10 g) = 0.202 W/kg**

Maximum value of SAR (measured) = 0.320 W/kg





**26\_LTE Band13\_10M\_QPSK\_1RB\_25Offset\_Right Side\_10mm\_Ch23230**

Communication System: UID 0, LTE-FDD (0); Frequency: 782 MHz; Duty Cycle: 1:1  
Medium: HSL\_750 Medium parameters used:  $f = 782 \text{ MHz}$ ;  $\sigma = 0.933 \text{ S/m}$ ;  $\epsilon_r = 40.785$ ;  $\rho = 1000 \text{ kg/m}^3$   
Ambient Temperature :  $23.4^\circ \text{C}$  ; Liquid Temperature :  $22.7^\circ \text{C}$

**DASY5 Configuration:**

- Probe: ES3DV3 - SN3293; ConvF(6.78, 6.78, 6.78); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Ch23230/Area Scan (41x71x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) =  $0.170 \text{ W/kg}$

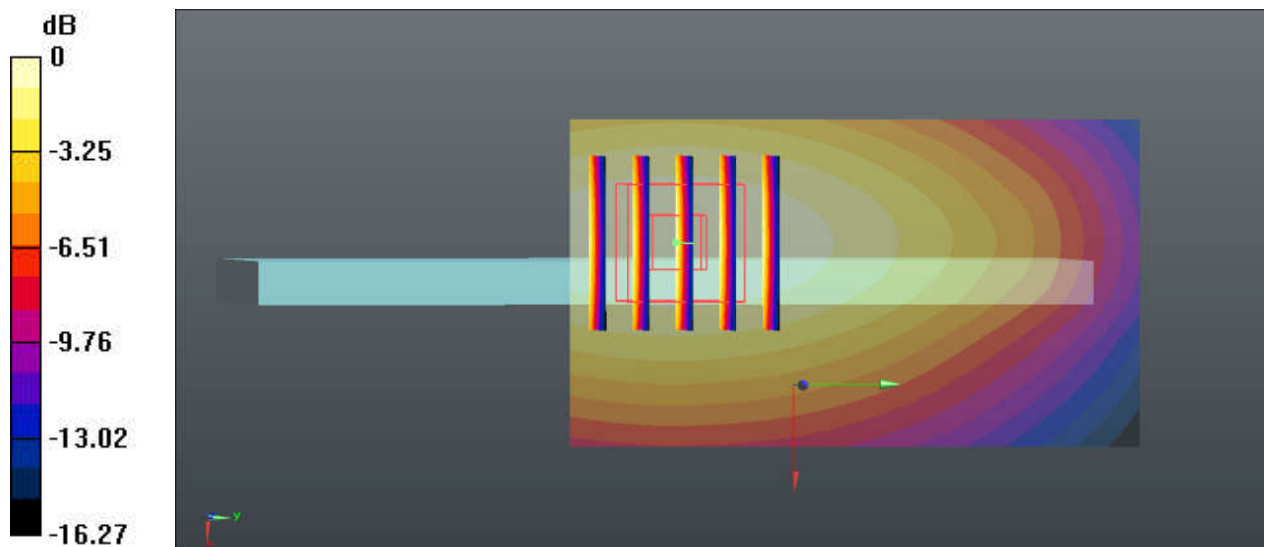
**Ch23230/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $13.25 \text{ V/m}$ ; Power Drift =  $0.01 \text{ dB}$

Peak SAR (extrapolated) =  $0.213 \text{ W/kg}$

**SAR(1 g) =  $0.150 \text{ W/kg}$ ; SAR(10 g) =  $0.104 \text{ W/kg}$**

Maximum value of SAR (measured) =  $0.173 \text{ W/kg}$



0 dB =  $0.170 \text{ W/kg}$  =  $-7.70 \text{ dBW/kg}$

**27\_LTE Band4\_20M\_QPSK\_1RB\_49Offset\_Bottom Side\_10mm\_Ch20175**

Communication System: UID 0, LTE-FDD (0); Frequency: 1732.5 MHz; Duty Cycle: 1:1  
Medium: HSL\_1750 Medium parameters used:  $f = 1733$  MHz;  $\sigma = 1.358$  S/m;  $\epsilon_r = 41.203$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.2 °C ; Liquid Temperature : 22.7 °C

## DASY5 Configuration:

- Probe: ES3DV3 - SN3293; ConvF(5.4, 5.4, 5.4); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Ch20175/Area Scan (41x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.28 W/kg

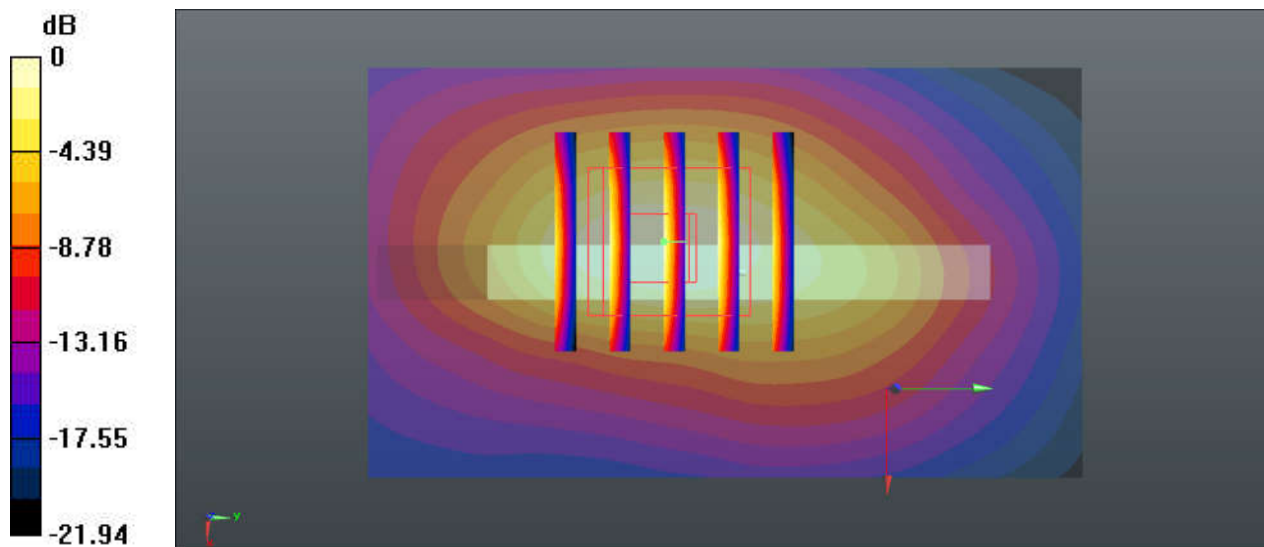
**Ch20175/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 26.86 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.71 W/kg

**SAR(1 g) = 1.01 W/kg; SAR(10 g) = 0.543 W/kg**

Maximum value of SAR (measured) = 1.25 W/kg



0 dB = 1.28 W/kg = 1.07 dBW/kg

**28\_LTE Band66\_20M\_QPSK\_1RB\_49Offset\_Bottom Side\_10mm\_Ch132072**

Communication System: UID 0, LTE-FDD (0); Frequency: 1720 MHz; Duty Cycle: 1:1

Medium: HSL\_1750 Medium parameters used:  $f = 1720$  MHz;  $\sigma = 1.344$  S/m;  $\epsilon_r = 41.271$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.2 °C ; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: ES3DV3 - SN3293; ConvF(5.4, 5.4, 5.4); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Ch132072/Area Scan (41x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.35 W/kg

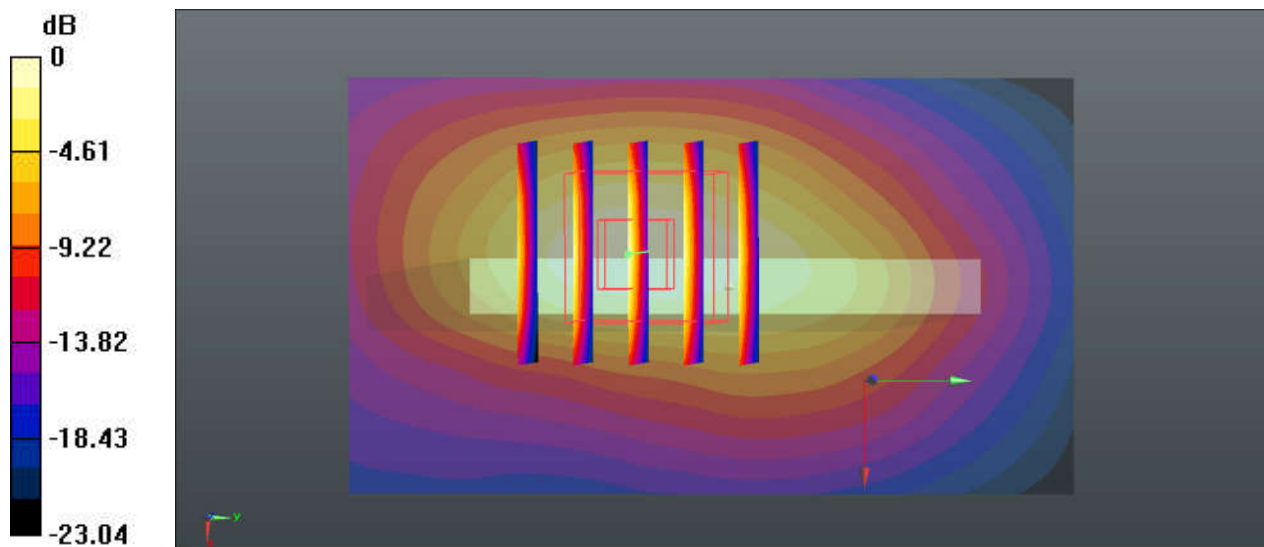
**Ch132072/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 26.64 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.77 W/kg

**SAR(1 g) = 1.05 W/kg; SAR(10 g) = 0.572 W/kg**

Maximum value of SAR (measured) = 1.30 W/kg



0 dB = 1.35 W/kg = 1.30 dBW/kg

**29\_LTE Band2\_20M\_QPSK\_1RB\_0Offset\_Bottom Side\_10mm\_Ch18700**

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

Medium: HSL\_1900 Medium parameters used:  $f = 1860$  MHz;  $\sigma = 1.396$  S/m;  $\epsilon_r = 39.149$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.3 °C ; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: ES3DV3 - SN3293; ConvF(5.19, 5.19, 5.19); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM2; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Ch18700/Area Scan (41x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.14 W/kg

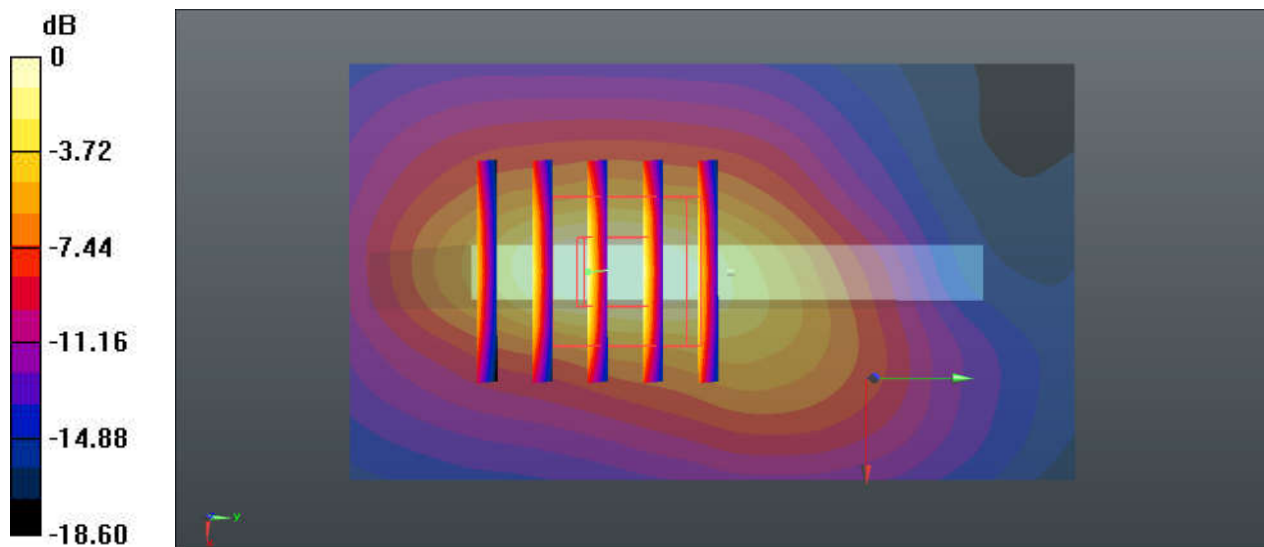
**Ch18700/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.33 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 1.45 W/kg

**SAR(1 g) = 0.769 W/kg; SAR(10 g) = 0.381 W/kg**

Maximum value of SAR (measured) = 1.19 W/kg



0 dB = 1.14 W/kg = 0.57 dBW/kg

**30\_LTE Band7\_20M\_QPSK\_1RB\_0Offset\_Back\_10mm\_Ch21350**

Communication System: UID 0, LTE-FDD (0); Frequency: 2560 MHz; Duty Cycle: 1:1

Medium: HSL\_2600 Medium parameters used:  $f = 2560$  MHz;  $\sigma = 1.989$  S/m;  $\epsilon_r = 38.779$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C ; Liquid Temperature : 22.8 °C

DASY5 Configuration:

- Probe: ES3DV3 - SN3293; ConvF(4.44, 4.44, 4.44); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM2; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Ch21350/Area Scan (81x81x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.41 W/kg

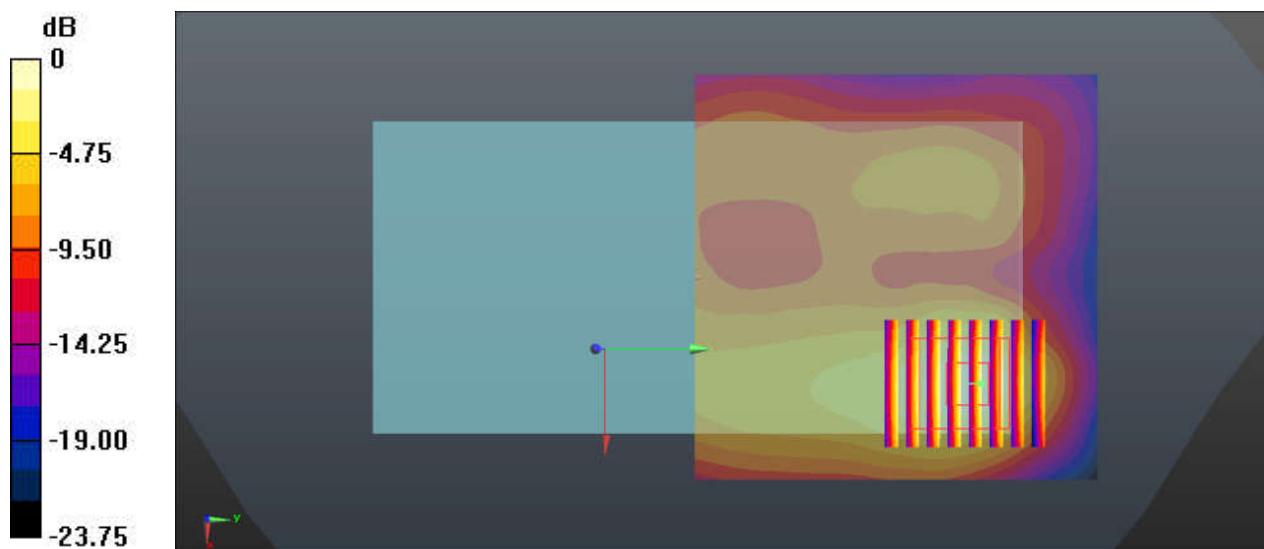
**Ch21350/Zoom Scan (7x8x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.30 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.78 W/kg

**SAR(1 g) = 0.782 W/kg; SAR(10 g) = 0.362 W/kg**

Maximum value of SAR (measured) = 1.36 W/kg



0 dB = 1.41 W/kg = 1.49 dBW/kg

**31\_LTE Band28\_20M\_QPSK\_1RB\_99Offset\_Back\_10mm\_Ch27410**

Communication System: UID 0, LTE-FDD (0); Frequency: 723 MHz; Duty Cycle: 1:1  
Medium: HSL\_750 Medium parameters used:  $f = 723$  MHz;  $\sigma = 0.876$  S/m;  $\epsilon_r = 41.593$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.4 °C ; Liquid Temperature : 22.7 °C

## DASY5 Configuration:

- Probe: ES3DV3 - SN3293; ConvF(6.78, 6.78, 6.78); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Ch27410/Area Scan (71x81x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.203 W/kg

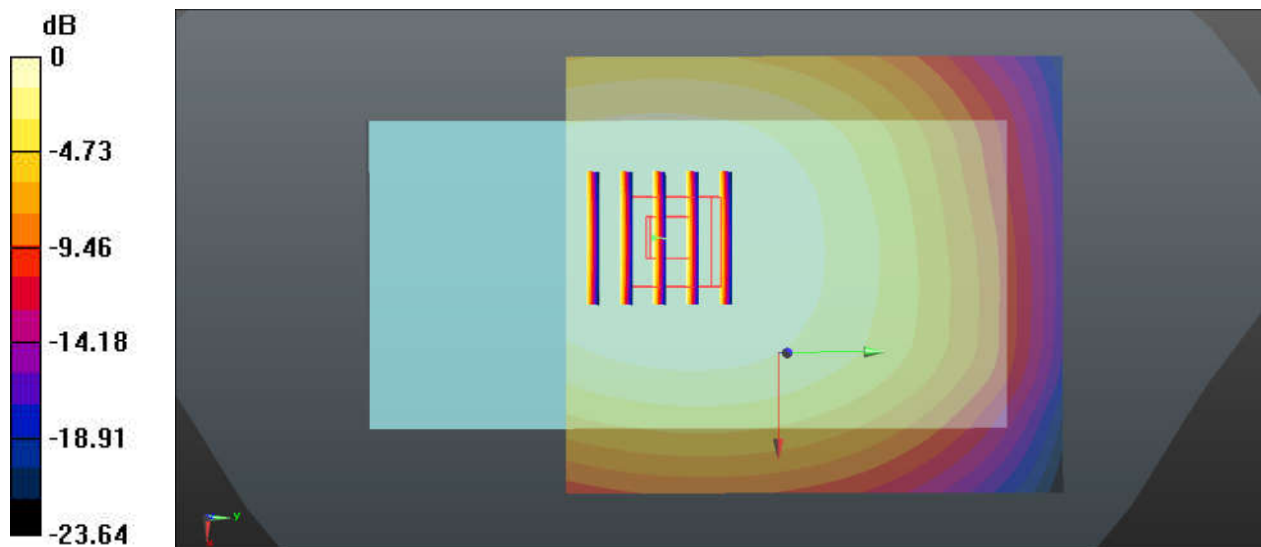
**Ch27410/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.57 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.228 W/kg

**SAR(1 g) = 0.187 W/kg; SAR(10 g) = 0.148 W/kg**

Maximum value of SAR (measured) = 0.203 W/kg



**32\_WLAN2.4GHz\_802.11b 1Mbps\_Back\_Ant1\_10mm\_Ch11**

Communication System: UID 0, 802.11b (0); Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: HSL\_2450 Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.863$  S/m;  $\epsilon_r = 38.56$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.4 °C ; Liquid Temperature : 22.8 °C

DASY5 Configuration:

- Probe: ES3DV3 - SN3293; ConvF(4.53, 4.53, 4.53); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM1; Type; SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Ch11/Area Scan (91x71x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.506 W/kg

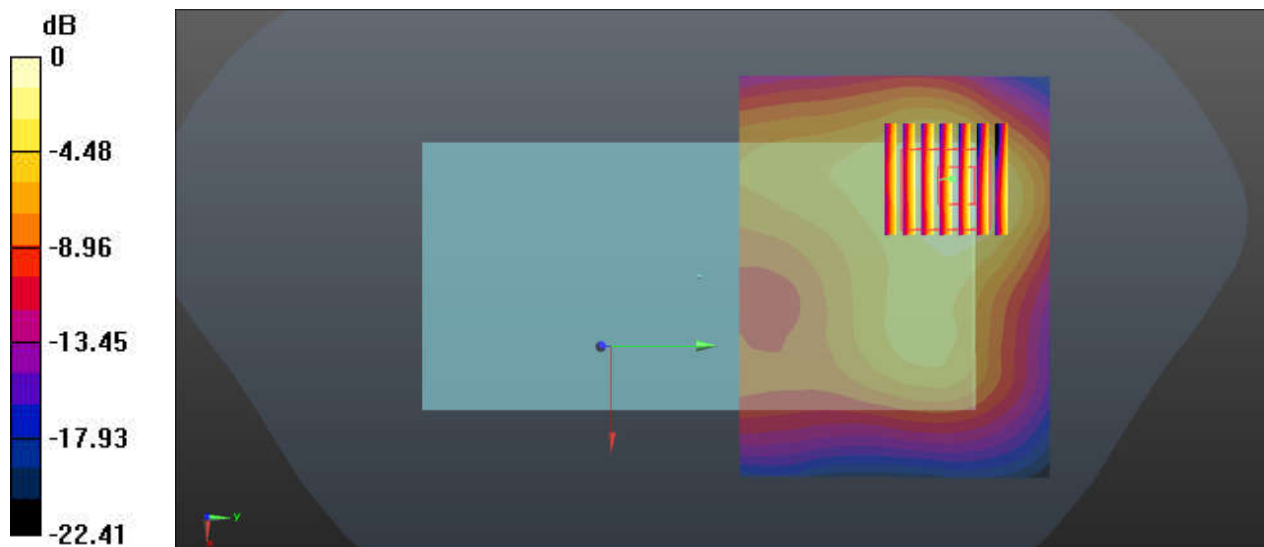
**Ch11/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.276 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.866 W/kg

**SAR(1 g) = 0.389 W/kg; SAR(10 g) = 0.184 W/kg**

Maximum value of SAR (measured) = 0.503 W/kg



0 dB = 0.506 W/kg = -2.96 dBW/kg

**33\_Bluetooth\_1Mbps\_Back\_Ant1\_10mm\_Ch0**

Communication System: UID 0, Bluetooth (0); Frequency: 2402 MHz; Duty Cycle: 1:1.302

Medium: HSL\_2450 Medium parameters used:  $f = 2402$  MHz;  $\sigma = 1.795$  S/m;  $\epsilon_r = 38.802$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.4 °C ; Liquid Temperature : 22.8 °C

DASY5 Configuration:

- Probe: ES3DV3 - SN3293; ConvF(4.53, 4.53, 4.53); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Ch0/Area Scan (91x71x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0307 W/kg

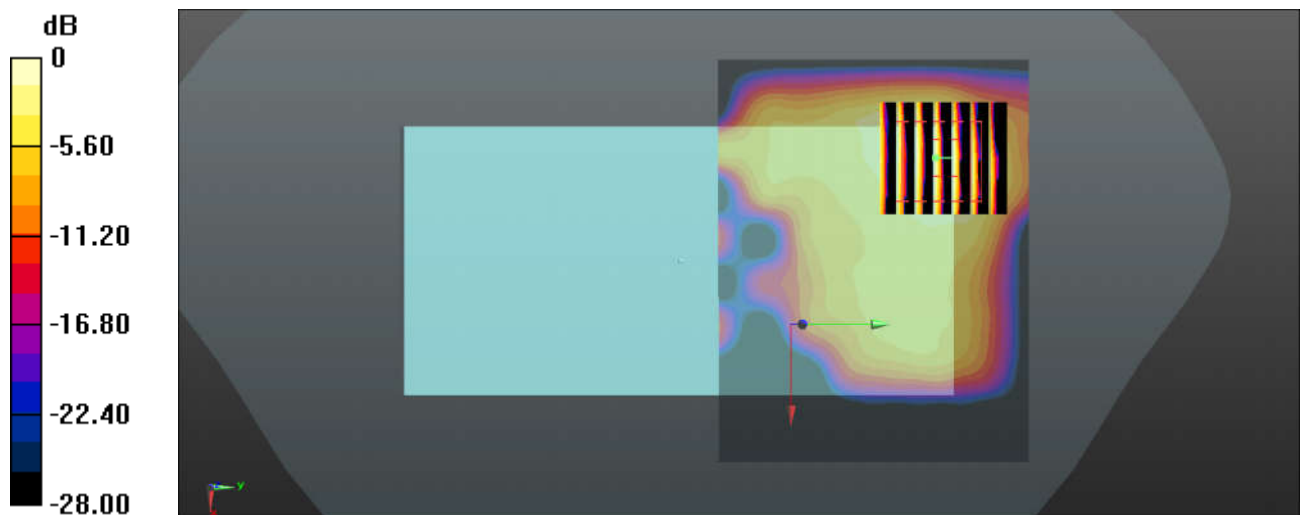
**Ch0/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.0450 W/kg

**SAR(1 g) = 0.021 W/kg; SAR(10 g) = 0.00813 W/kg**

Maximum value of SAR (measured) = 0.0306 W/kg



0 dB = 0.0306 W/kg = -15.14 dBW/kg



**34\_WLAN5GHz\_802.11a 6Mbps\_Back\_10mm\_Ch48**

Communication System: UID 0, 802.11a (0); Frequency: 5240 MHz; Duty Cycle: 1:1.049

Medium: HSL\_5000 Medium parameters used:  $f = 5240$  MHz;  $\sigma = 4.594$  S/m;  $\epsilon_r = 36.726$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.3 °C ; Liquid Temperature : 22.8 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3954; ConvF(4.98, 4.98, 4.98); Calibrated: 2019.4.25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2018.12.3
- Phantom: SAM1; Type: SAM; Serial: TP-1697
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Ch48/Area Scan (111x61x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.934 W/kg

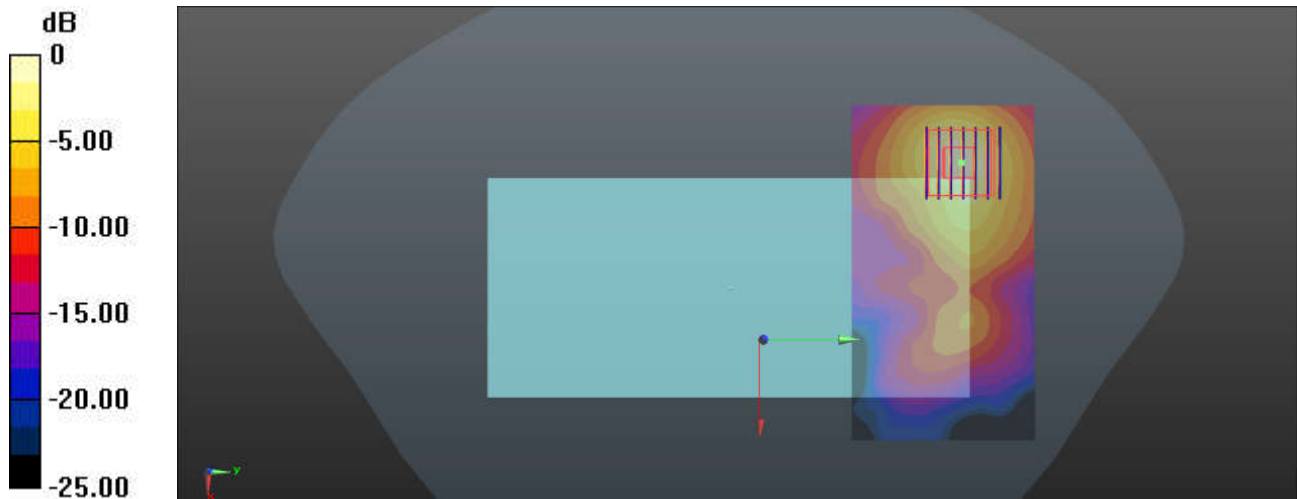
**Ch48/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 1.065 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.55 W/kg

**SAR(1 g) = 0.434 W/kg; SAR(10 g) = 0.147 W/kg**

Maximum value of SAR (measured) = 1.00 W/kg



0 dB = 0.934 W/kg = -0.30 dBW/kg

**35\_WLAN5GHz\_802.11a 6Mbps\_Back\_10mm\_Ch165**

Communication System: UID 0, 802.11a (0); Frequency: 5825 MHz; Duty Cycle: 1:1.049

Medium: HSL\_5000 Medium parameters used:  $f = 5825$  MHz;  $\sigma = 5.276$  S/m;  $\epsilon_r = 35.454$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.3 °C ; Liquid Temperature : 22.8 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3954; ConvF(4.65, 4.65, 4.65); Calibrated: 2019.4.25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2018.12.3
- Phantom: SAM1; Type: SAM; Serial: TP-1697
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Ch165/Area Scan (101x71x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.160 W/kg

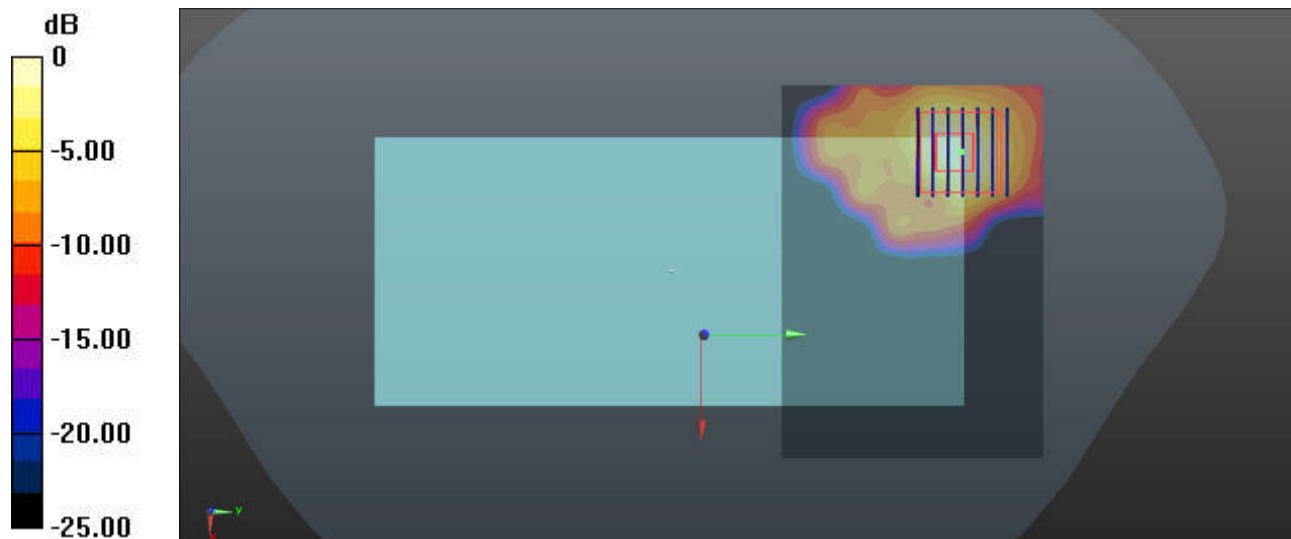
**Ch165/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 0.7790 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.292 W/kg

**SAR(1 g) = 0.061 W/kg; SAR(10 g) = 0.019 W/kg**

Maximum value of SAR (measured) = 0.165 W/kg



0 dB = 0.160 W/kg = -7.96 dBW/kg

**36\_GSM850\_GPRS 3 Tx slots\_Back\_10mm\_Ch189**

Communication System: UID 0, GSM850-3UP (0); Frequency: 836.4 MHz; Duty Cycle: 1:2.77  
Medium: HSL\_850 Medium parameters used:  $f = 836.4$  MHz;  $\sigma = 0.922$  S/m;  $\epsilon_r = 42.532$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.4 °C ; Liquid Temperature : 22.8 °C

## DASY5 Configuration:

- Probe: ES3DV3 - SN3293; ConvF(6.47, 6.47, 6.47); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM2; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Ch189/Area Scan (71x91x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.396 W/kg

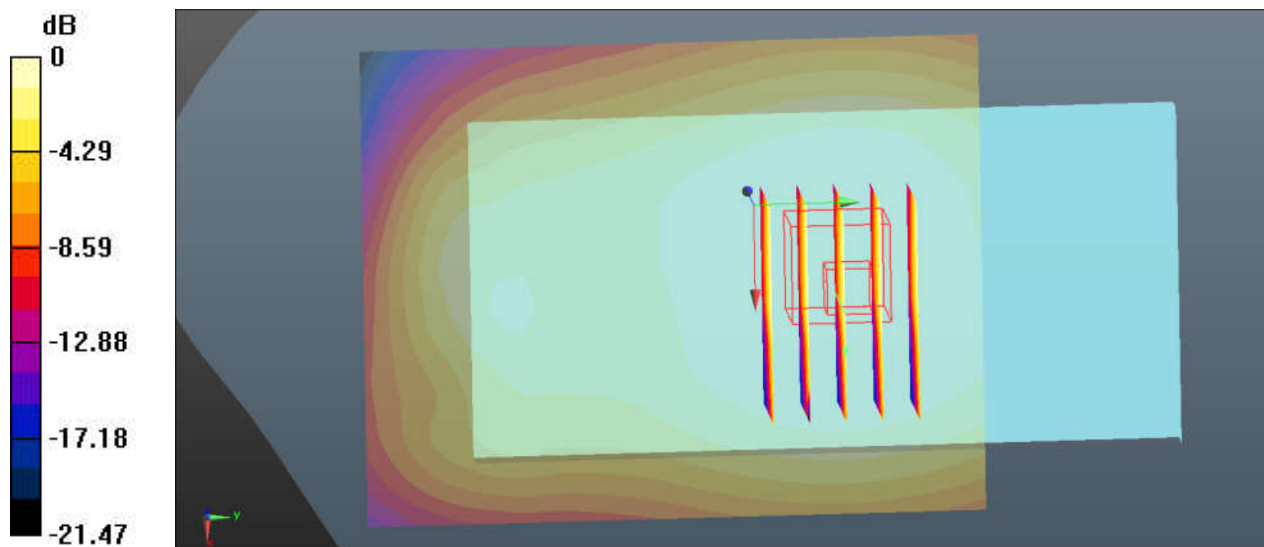
**Ch189/Zoom Scan (7x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.30 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.633 W/kg

**SAR(1 g) = 0.497 W/kg; SAR(10 g) = 0.385 W/kg**

Maximum value of SAR (measured) = 0.537 W/kg



0 dB = 0.396 W/kg = -4.02 dBW/kg

**37\_GSM1900\_GPRS 3 Tx slots\_Back\_10mm\_Ch810**

Communication System: UID 0, PCS (0); Frequency: 1909.8 MHz; Duty Cycle: 1:2.77  
Medium: HSL\_1900 Medium parameters used:  $f = 1910$  MHz;  $\sigma = 1.449$  S/m;  $\epsilon_r = 38.92$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.3 °C ; Liquid Temperature : 22.7 °C

## DASY5 Configuration:

- Probe: ES3DV3 - SN3293; ConvF(5.19, 5.19, 5.19); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM2; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Ch810/Area Scan (71x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.889 W/kg

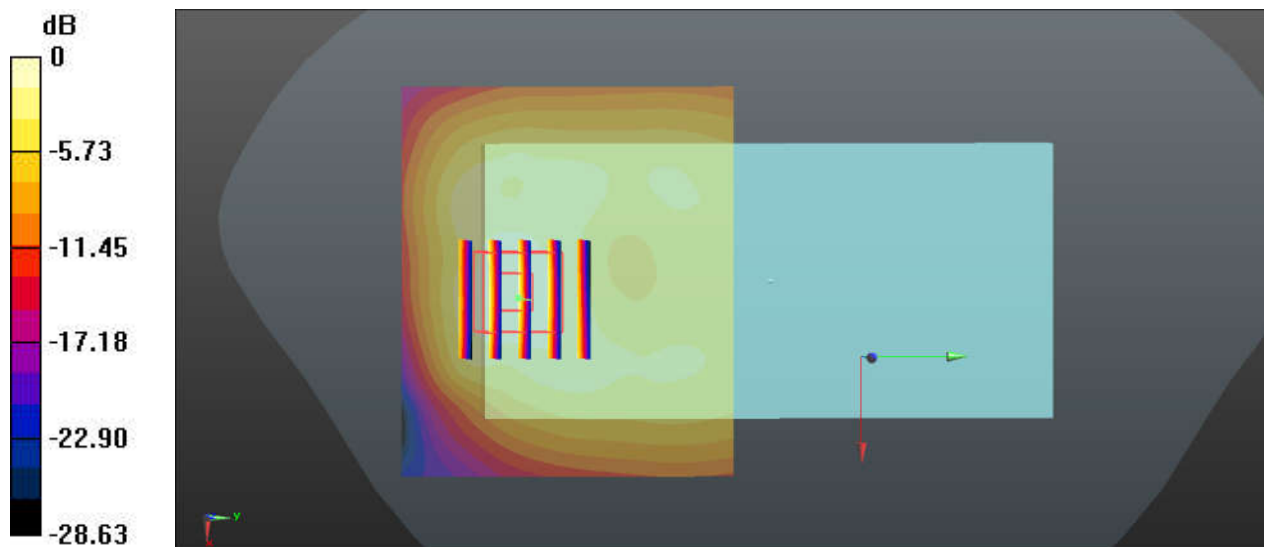
**Ch810/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.22 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.40 W/kg

**SAR(1 g) = 0.755 W/kg; SAR(10 g) = 0.399 W/kg**

Maximum value of SAR (measured) = 0.918 W/kg



0 dB = 0.889 W/kg = -0.51 dBW/kg

**38\_WCDMA V\_RMC 12.2Kbps\_Back\_10mm\_Ch4182**

Communication System: UID 0, WCDMA (0); Frequency: 836.4 MHz; Duty Cycle: 1:1  
Medium: HSL\_835 Medium parameters used:  $f = 836.4$  MHz;  $\sigma = 0.922$  S/m;  $\epsilon_r = 42.532$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.4 °C ; Liquid Temperature : 22.8 °C

## DASY5 Configuration:

- Probe: ES3DV3 - SN3293; ConvF(6.47, 6.47, 6.47); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM2; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Ch4182/Area Scan (71x91x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.356 W/kg

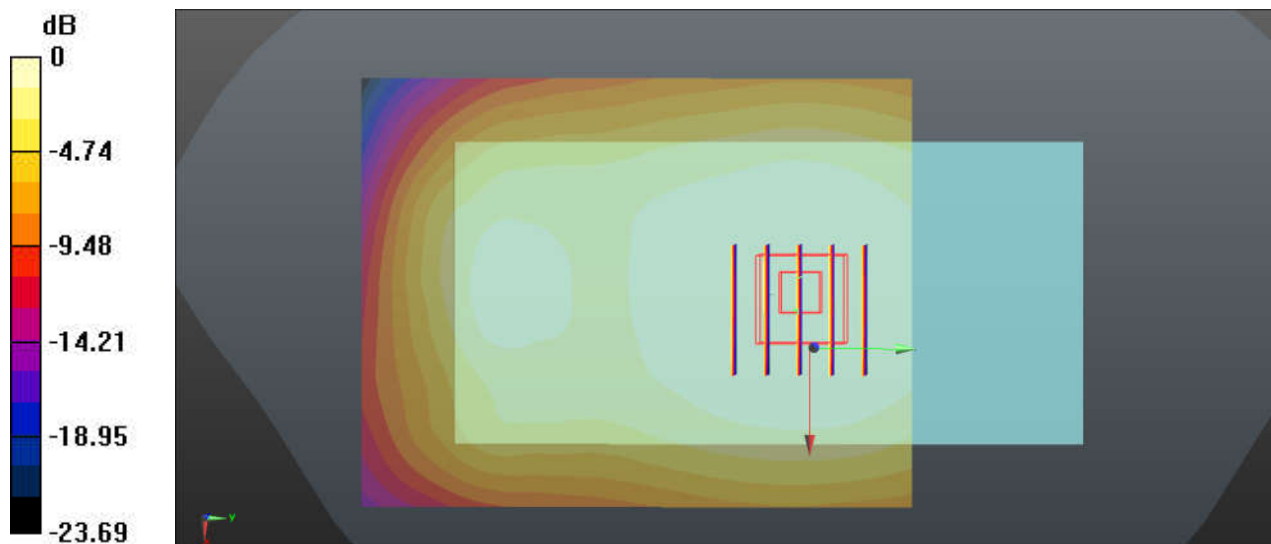
**Ch4182/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.71 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.396 W/kg

**SAR(1 g) = 0.289 W/kg; SAR(10 g) = 0.222 W/kg**

Maximum value of SAR (measured) = 0.356 W/kg



0 dB = 0.356 W/kg = -4.49 dBW/kg

**39\_WCDMA II\_RMC 12.2Kbps\_Back\_10mm\_Ch9262**

Communication System: UID 0, WCDMA (0); Frequency: 1852.4 MHz; Duty Cycle: 1:1  
Medium: HSL\_1900 Medium parameters used:  $f = 1852.4$  MHz;  $\sigma = 1.388$  S/m;  $\epsilon_r = 39.178$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.3 °C ; Liquid Temperature : 22.7 °C

## DASY5 Configuration:

- Probe: ES3DV3 - SN3293; ConvF(5.19, 5.19, 5.19); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM2; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Ch9262/Area Scan (71x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.891 W/kg

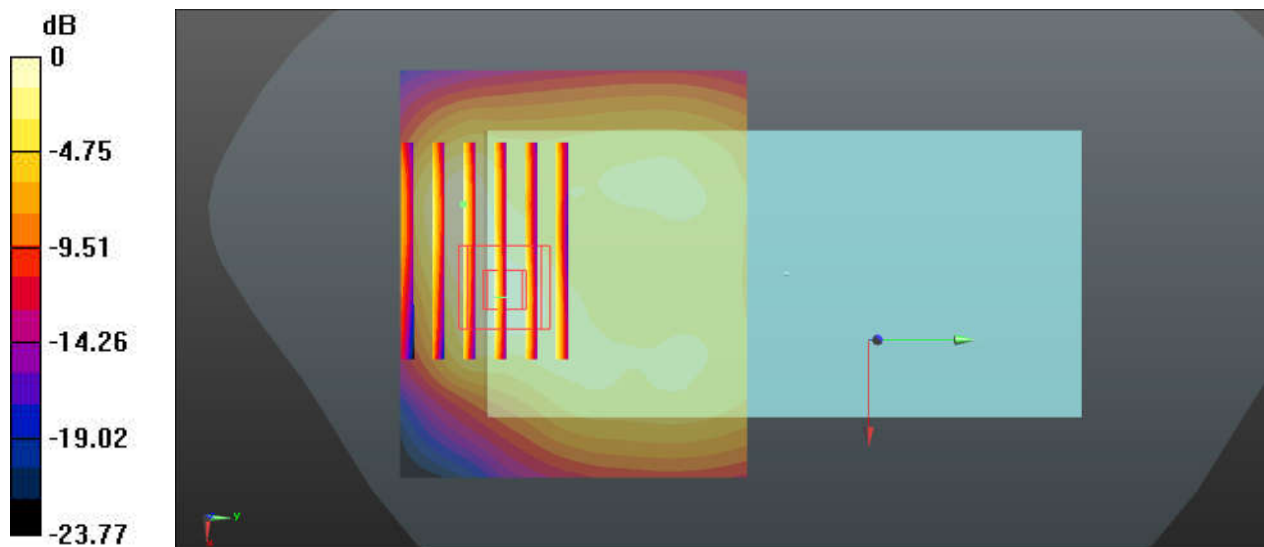
**Ch9262/Zoom Scan (8x6x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.53 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.13 W/kg

**SAR(1 g) = 0.601 W/kg; SAR(10 g) = 0.326 W/kg**

Maximum value of SAR (measured) = 0.896 W/kg



**40\_WCDMA IV\_RMC 12.2Kbps\_Back\_10mm\_Ch1312**

Communication System: UID 0, WCDMA (0); Frequency: 1712.4 MHz; Duty Cycle: 1:1  
Medium: HSL\_1750 Medium parameters used:  $f = 1712.4$  MHz;  $\sigma = 1.336$  S/m;  $\epsilon_r = 41.312$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.2 °C ; Liquid Temperature : 22.7 °C

## DASY5 Configuration:

- Probe: ES3DV3 - SN3293; ConvF(5.4, 5.4, 5.4); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Ch1312/Area Scan (71x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.22 W/kg

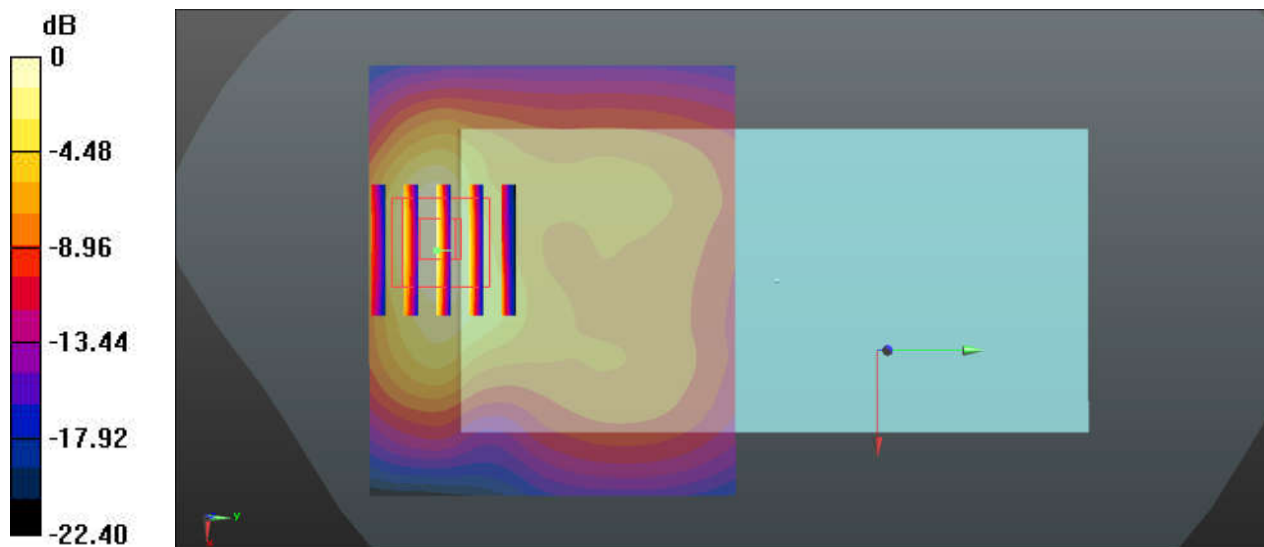
**Ch1312/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.352 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.52 W/kg

**SAR(1 g) = 0.845 W/kg; SAR(10 g) = 0.453 W/kg**

Maximum value of SAR (measured) = 1.24 W/kg



**41\_LTE Band12\_10M\_QPSK\_1RB\_49Offset\_Back\_10mm\_Ch23095**

Communication System: UID 0, LTE-FDD (0); Frequency: 707.5 MHz; Duty Cycle: 1:1  
Medium: HSL\_750 Medium parameters used:  $f = 707.5$  MHz;  $\sigma = 0.863$  S/m;  $\epsilon_r = 41.811$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.4 °C ; Liquid Temperature : 22.7 °C

## DASY5 Configuration:

- Probe: ES3DV3 - SN3293; ConvF(6.78, 6.78, 6.78); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Ch23095/Area Scan (71x91x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 0.157 W/kg

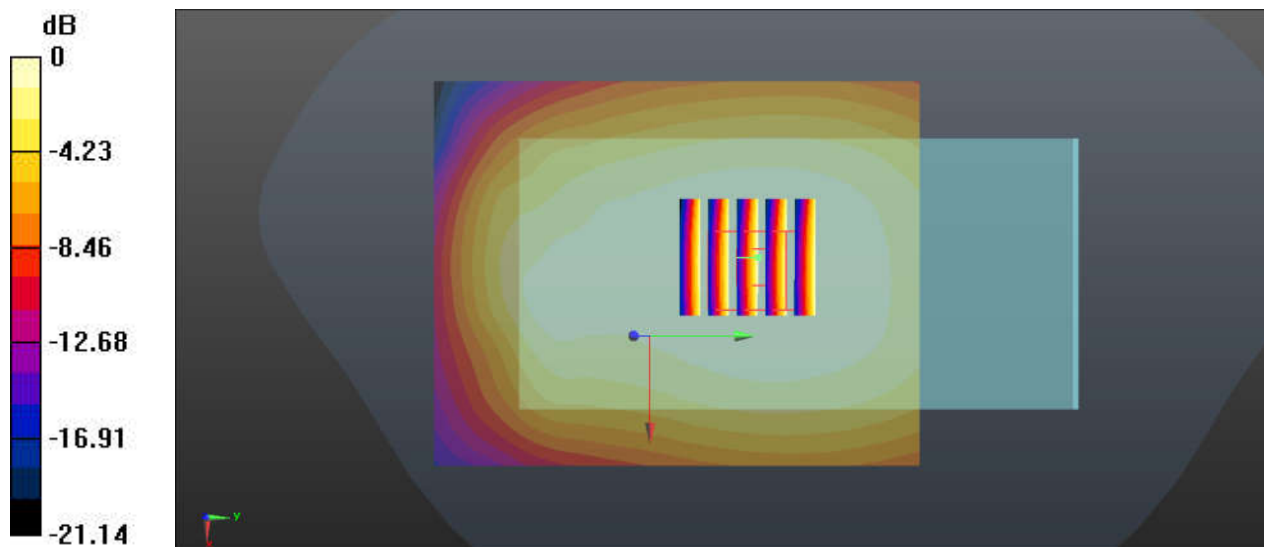
**Ch23095/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 13.83 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.170 W/kg

**SAR(1 g) = 0.130 W/kg; SAR(10 g) = 0.102 W/kg**

Maximum value of SAR (measured) = 0.156 W/kg





**42\_LTE Band5\_10M\_QPSK\_1RB\_0Offset\_Back\_10mm\_Ch20525**

Communication System: UID 0, LTE-FDD (0); Frequency: 836.5 MHz; Duty Cycle: 1:1  
Medium: HSL\_835 Medium parameters used:  $f = 836.5$  MHz;  $\sigma = 0.922$  S/m;  $\epsilon_r = 42.531$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.4 °C ; Liquid Temperature : 22.8 °C

## DASY5 Configuration:

- Probe: ES3DV3 - SN3293; ConvF(6.47, 6.47, 6.47); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM2; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Ch20525/Area Scan (71x91x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.321 W/kg

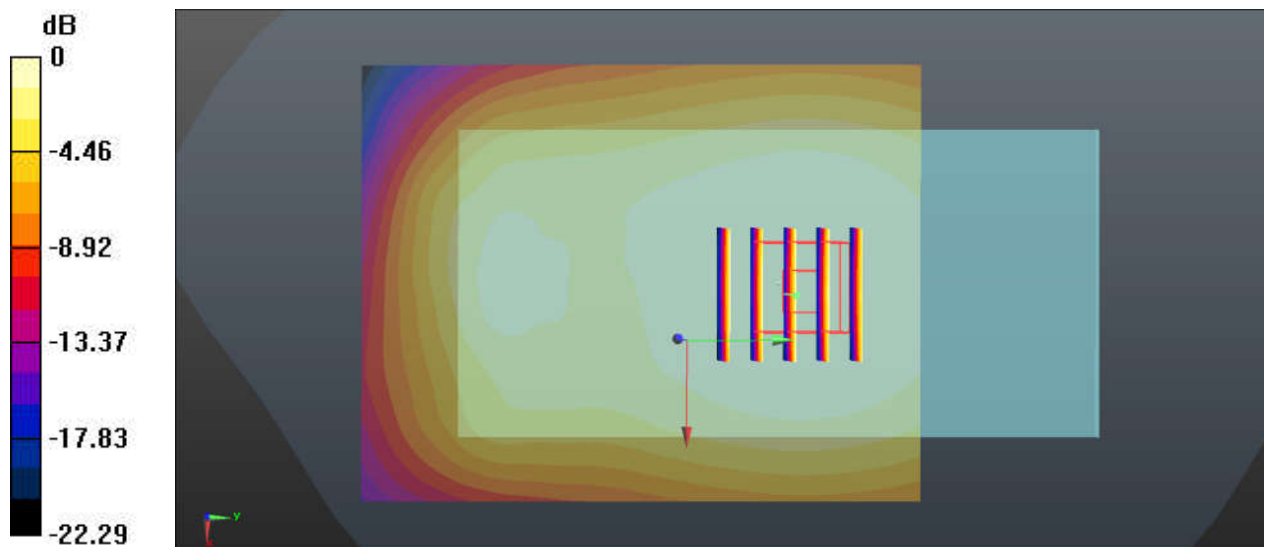
**Ch20525/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.02 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.357 W/kg

**SAR(1 g) = 0.263 W/kg; SAR(10 g) = 0.202 W/kg**

Maximum value of SAR (measured) = 0.320 W/kg



**43\_LTE Band13\_10M\_QPSK\_1RB\_25Offset\_Back\_10mm\_Ch23230**

Communication System: UID 0, LTE-FDD (0); Frequency: 782 MHz; Duty Cycle: 1:1  
Medium: HSL\_750 Medium parameters used:  $f = 782 \text{ MHz}$ ;  $\sigma = 0.865 \text{ S/m}$ ;  $\epsilon_r = 43.05$ ;  $\rho = 1000 \text{ kg/m}^3$   
Ambient Temperature :  $23.4^\circ \text{C}$  ; Liquid Temperature :  $22.7^\circ \text{C}$

**DASY5 Configuration:**

- Probe: ES3DV3 - SN3293; ConvF(6.78, 6.78, 6.78); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Ch23230/Area Scan (71x91x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) =  $0.179 \text{ W/kg}$

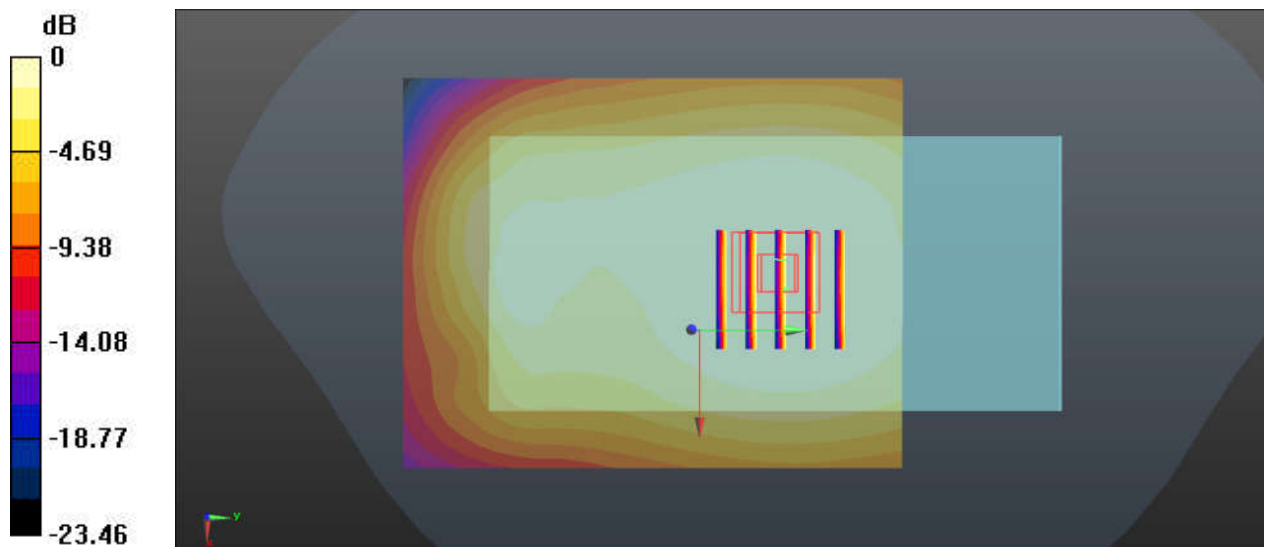
**Ch23230/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $14.93 \text{ V/m}$ ; Power Drift =  $-0.06 \text{ dB}$

Peak SAR (extrapolated) =  $0.196 \text{ W/kg}$

**SAR(1 g) =  $0.148 \text{ W/kg}$ ; SAR(10 g) =  $0.116 \text{ W/kg}$**

Maximum value of SAR (measured) =  $0.178 \text{ W/kg}$



0 dB =  $0.179 \text{ W/kg}$  =  $-7.47 \text{ dBW/kg}$

**44\_LTE Band4\_20M\_QPSK\_1RB\_49Offset\_Back\_10mm\_Ch20175**

Communication System: UID 0, LTE-FDD (0); Frequency: 1732.5 MHz; Duty Cycle: 1:1  
Medium: HSL\_1750 Medium parameters used:  $f = 1733$  MHz;  $\sigma = 1.358$  S/m;  $\epsilon_r = 41.203$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.2 °C ; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: ES3DV3 - SN3293; ConvF(5.4, 5.4, 5.4); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Ch20175/Area Scan (71x71x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 0.843 W/kg

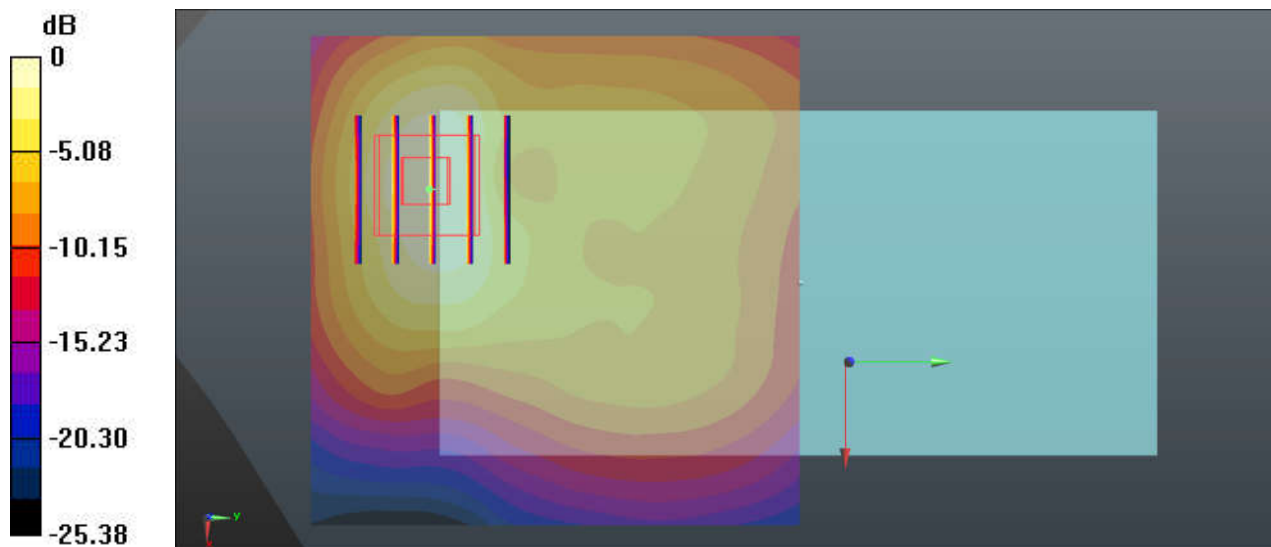
**Ch20175/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 6.900 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.25 W/kg

**SAR(1 g) = 0.747 W/kg; SAR(10 g) = 0.413 W/kg**

Maximum value of SAR (measured) = 0.928 W/kg



0 dB = 0.843 W/kg = -0.74 dBW/kg

**45\_LTE Band66\_20M\_QPSK\_1RB\_49Offset\_Back\_10mm\_Ch132322**

Communication System: UID 0, LTE-FDD (0); Frequency: 1745 MHz; Duty Cycle: 1:1

Medium: HSL\_1750 Medium parameters used:  $f = 1745$  MHz;  $\sigma = 1.371$  S/m;  $\epsilon_r = 41.148$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.2 °C ; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: ES3DV3 - SN3293; ConvF(5.4, 5.4, 5.4); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Ch132322/Area Scan (71x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.878 W/kg

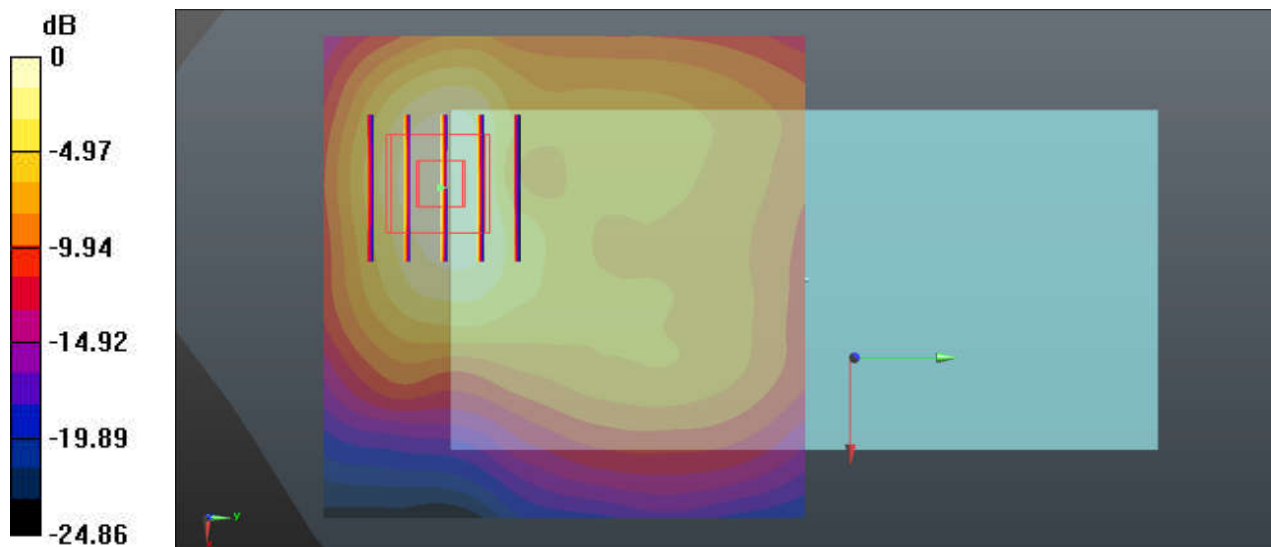
**Ch132322/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.983 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.27 W/kg

**SAR(1 g) = 0.725 W/kg; SAR(10 g) = 0.414 W/kg**

Maximum value of SAR (measured) = 0.965 W/kg



0 dB = 0.965 W/kg = -0.15 dBW/kg

**46\_LTE Band2\_20M\_QPSK\_1RB\_0Offset\_Back\_10mm\_Ch18700**

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

Medium: HSL\_1900 Medium parameters used:  $f = 1860$  MHz;  $\sigma = 1.396$  S/m;  $\epsilon_r = 39.149$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.3 °C ; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: ES3DV3 - SN3293; ConvF(5.19, 5.19, 5.19); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM2; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Ch18700/Area Scan (71x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.683 W/kg

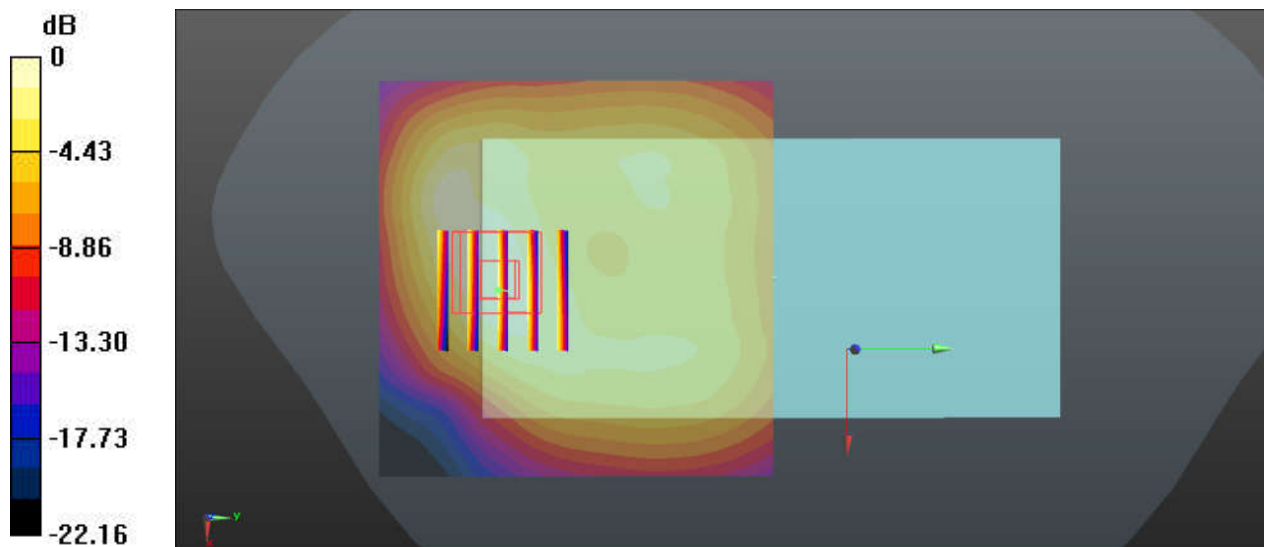
**Ch18700/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.12 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.00 W/kg

**SAR(1 g) = 0.559 W/kg; SAR(10 g) = 0.312 W/kg**

Maximum value of SAR (measured) = 0.681 W/kg



**47\_LTE Band7\_20M\_QPSK\_1RB\_0Offset\_Back\_10mm\_Ch21350**

Communication System: UID 0, LTE-FDD (0); Frequency: 2560 MHz; Duty Cycle: 1:1

Medium: HSL\_2600 Medium parameters used:  $f = 2560$  MHz;  $\sigma = 1.989$  S/m;  $\epsilon_r = 38.779$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C ; Liquid Temperature : 22.8 °C

DASY5 Configuration:

- Probe: ES3DV3 - SN3293; ConvF(4.44, 4.44, 4.44); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM2; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Ch21350/Area Scan (81x81x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.41 W/kg

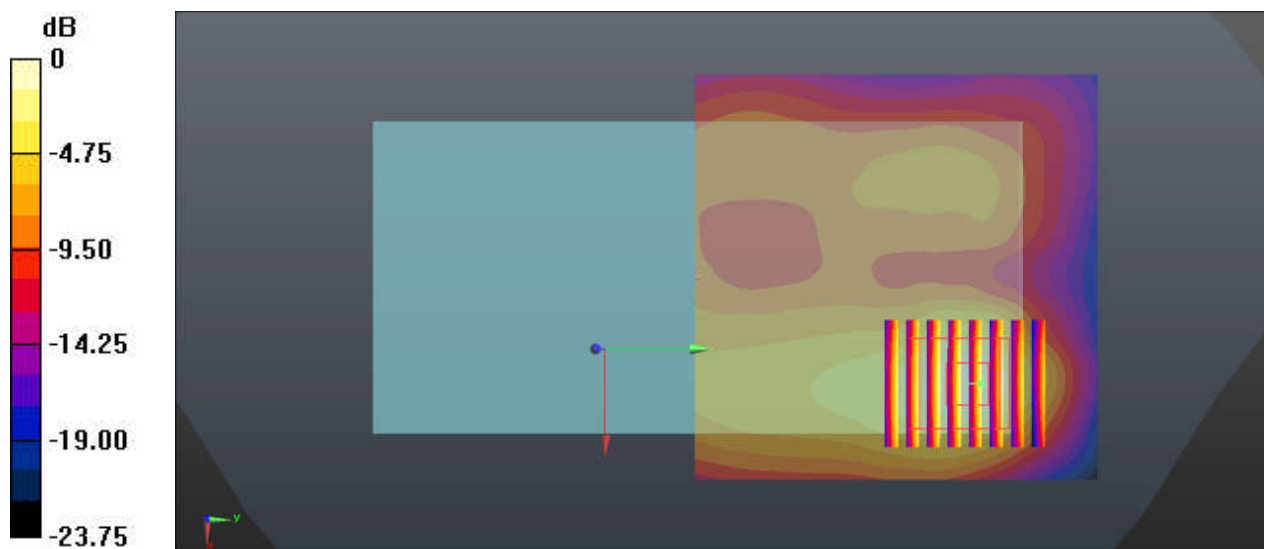
**Ch21350/Zoom Scan (7x8x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.30 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.78 W/kg

**SAR(1 g) = 0.782 W/kg; SAR(10 g) = 0.362 W/kg**

Maximum value of SAR (measured) = 1.36 W/kg



**48\_LTE Band28\_20M\_QPSK\_1RB\_99Offset\_Back\_10mm\_Ch27410**

Communication System: UID 0, LTE-FDD (0); Frequency: 723 MHz; Duty Cycle: 1:1  
Medium: HSL\_750 Medium parameters used:  $f = 723$  MHz;  $\sigma = 0.876$  S/m;  $\epsilon_r = 41.593$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.4 °C ; Liquid Temperature : 22.7 °C

## DASY5 Configuration:

- Probe: ES3DV3 - SN3293; ConvF(6.78, 6.78, 6.78); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Ch27410/Area Scan (71x81x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.203 W/kg

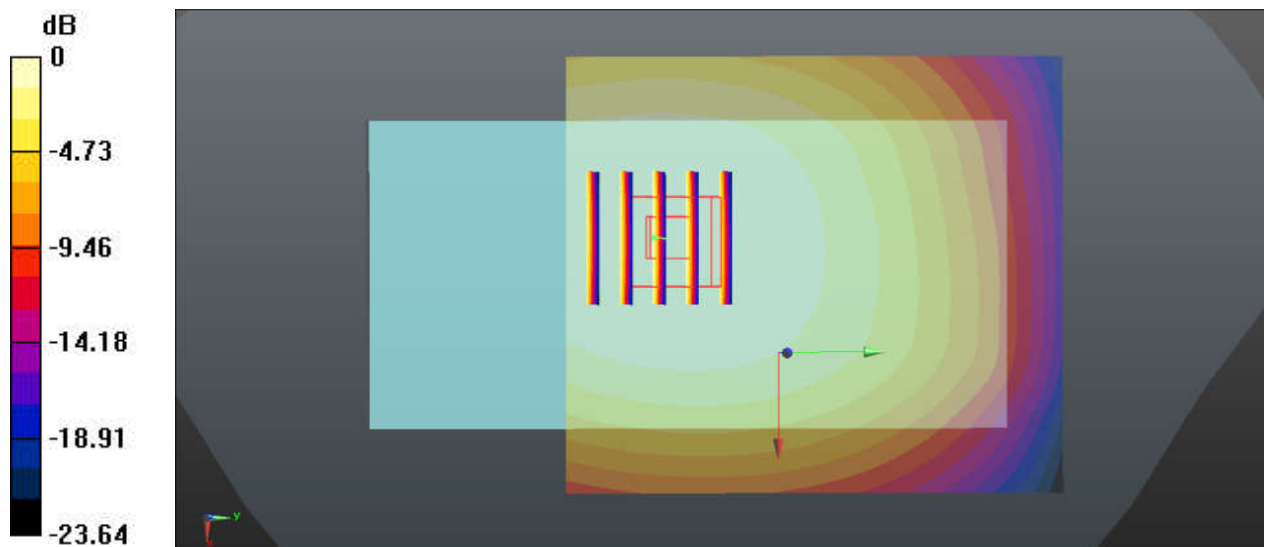
**Ch27410/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.57 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.228 W/kg

**SAR(1 g) = 0.187 W/kg; SAR(10 g) = 0.148 W/kg**

Maximum value of SAR (measured) = 0.203 W/kg



0 dB = 0.203 W/kg = -6.93 dBW/kg

**49\_WLAN2.4GHz\_802.11b 1Mbps\_Back\_Ant1\_10mm\_Ch11**

Communication System: UID 0, 802.11b (0); Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: HSL\_2450 Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.863$  S/m;  $\epsilon_r = 38.56$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.4 °C ; Liquid Temperature : 22.8 °C

DASY5 Configuration:

- Probe: ES3DV3 - SN3293; ConvF(4.53, 4.53, 4.53); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM1; Type; SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Ch11/Area Scan (91x71x1):** Interpolated grid:  $dx=1.200$  mm,  $dy=1.200$  mm

Maximum value of SAR (interpolated) = 0.506 W/kg

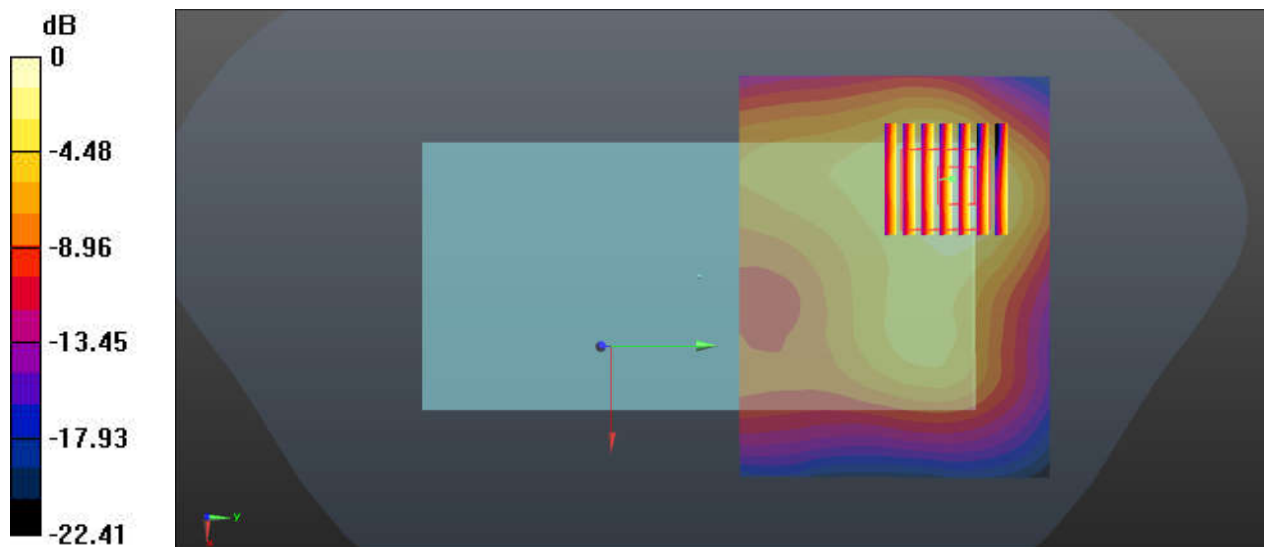
**Ch11/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 6.276 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.866 W/kg

**SAR(1 g) = 0.389 W/kg; SAR(10 g) = 0.184 W/kg**

Maximum value of SAR (measured) = 0.503 W/kg





**50\_Bluetooth\_1Mbps\_Back\_Ant1\_10mm\_Ch0**

Communication System: UID 0, Bluetooth (0); Frequency: 2402 MHz; Duty Cycle: 1:1.302

Medium: HSL\_2450 Medium parameters used:  $f = 2402$  MHz;  $\sigma = 1.795$  S/m;  $\epsilon_r = 38.802$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.4 °C ; Liquid Temperature : 22.8 °C

DASY5 Configuration:

- Probe: ES3DV3 - SN3293; ConvF(4.53, 4.53, 4.53); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Ch0/Area Scan (91x71x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0307 W/kg

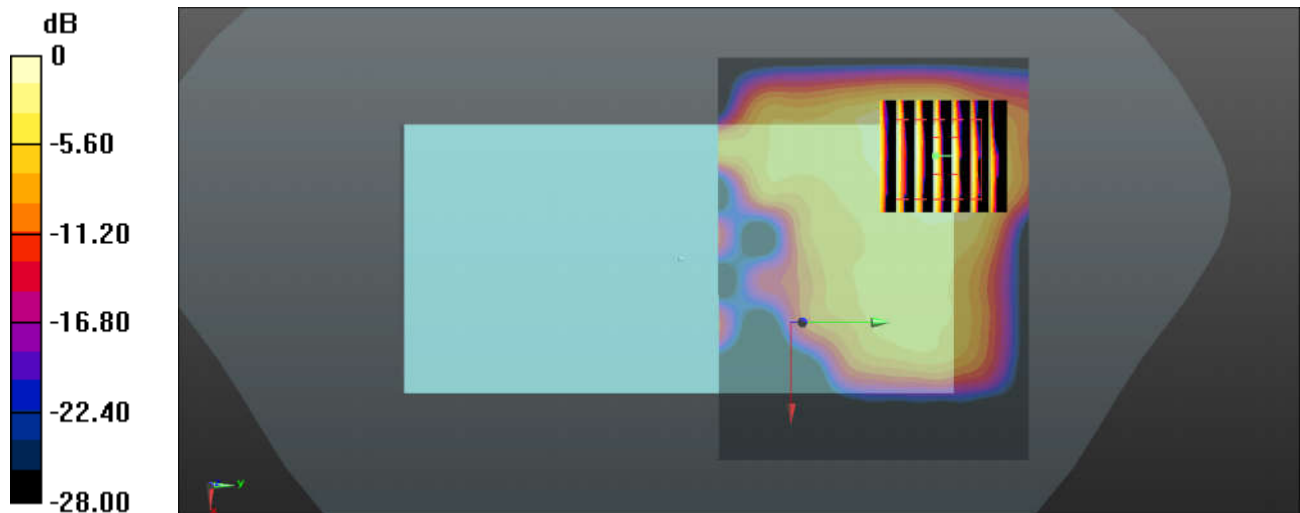
**Ch0/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.0450 W/kg

**SAR(1 g) = 0.021 W/kg; SAR(10 g) = 0.00813 W/kg**

Maximum value of SAR (measured) = 0.0306 W/kg



**51\_WLAN5GHz\_802.11a 6Mbps\_Back\_10mm\_Ch56**

Communication System: UID 0, 802.11a (0); Frequency: 5280 MHz; Duty Cycle: 1:1.049

Medium: HSL\_5000 Medium parameters used:  $f = 5280$  MHz;  $\sigma = 4.632$  S/m;  $\epsilon_r = 36.643$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.3 °C ; Liquid Temperature : 22.8 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3954; ConvF(4.98, 4.98, 4.98); Calibrated: 2019.4.25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2018.12.3
- Phantom: SAM1; Type: SAM; Serial: TP-1697
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Ch56/Area Scan (111x61x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.03 W/kg

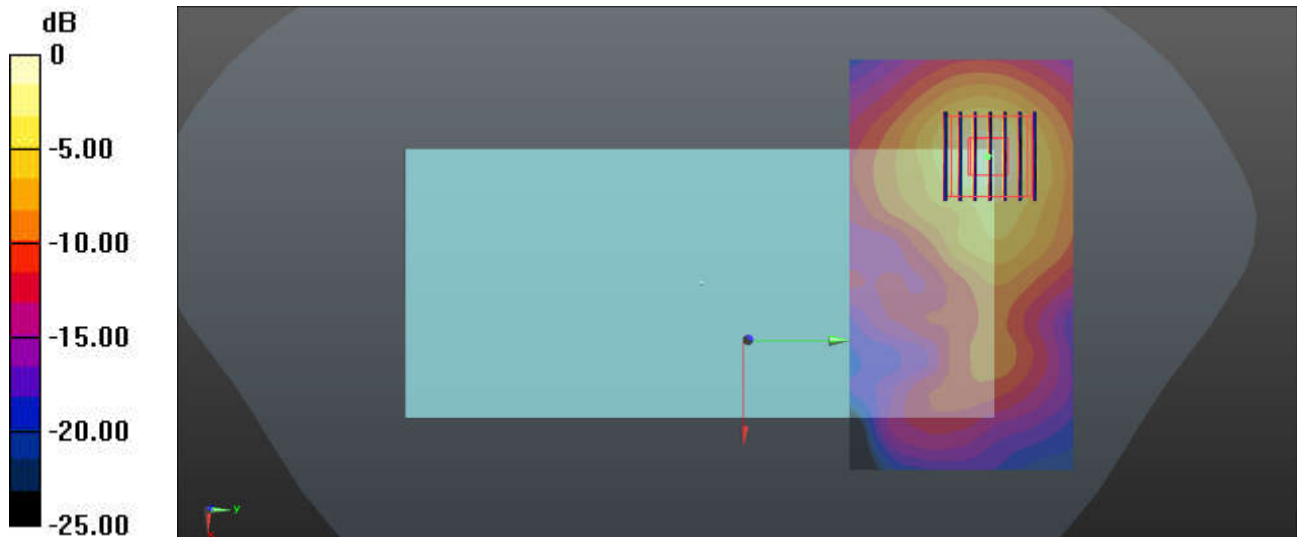
**Ch56/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 1.604 V/m; Power Drift = 0.01dB

Peak SAR (extrapolated) = 1.74 W/kg

**SAR(1 g) = 0.459 W/kg; SAR(10 g) = 0.156 W/kg**

Maximum value of SAR (measured) = 1.11 W/kg



0 dB = 1.03 W/kg = 0.13 dBW/kg

**52\_WLAN5GHz\_802.11a 6Mbps\_Back\_10mm\_Ch100**

Communication System: UID 0, 802.11a (0); Frequency: 5500 MHz; Duty Cycle: 1:1.049

Medium: HSL\_5000 Medium parameters used:  $f = 5500$  MHz;  $\sigma = 4.886$  S/m;  $\epsilon_r = 36.148$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3954; ConvF(4.51, 4.51, 4.51); Calibrated: 2019.4.25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2018.12.3
- Phantom: SAM1; Type: SAM; Serial: TP-1697
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Ch100/Area Scan (111x61x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.485 W/kg

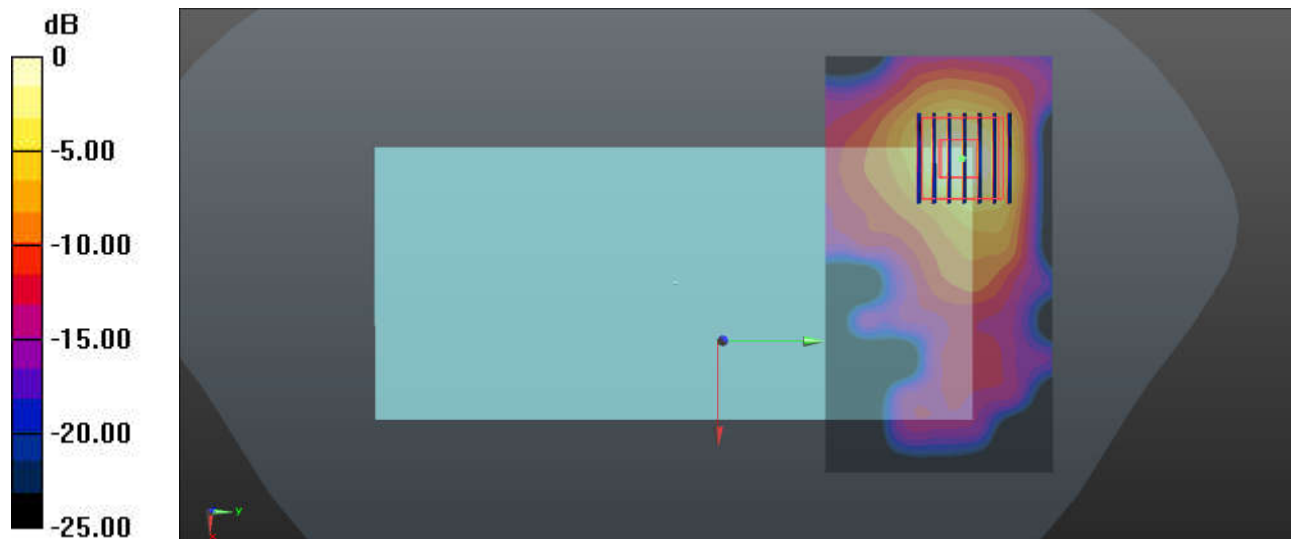
**Ch100/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 1.122 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.813 W/kg

**SAR(1 g) = 0.207 W/kg; SAR(10 g) = 0.063 W/kg**

Maximum value of SAR (measured) = 0.517 W/kg



0 dB = 0.485 W/kg = -3.14 dBW/kg

**53\_WLAN5GHz\_802.11a 6Mbps\_Back\_10mm\_Ch165**

Communication System: UID 0, 802.11a (0); Frequency: 5825 MHz; Duty Cycle: 1:1.049

Medium: HSL\_5000 Medium parameters used:  $f = 5825$  MHz;  $\sigma = 5.276$  S/m;  $\epsilon_r = 35.454$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.3 °C ; Liquid Temperature : 22.8 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3954; ConvF(4.65, 4.65, 4.65); Calibrated: 2019.4.25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2018.12.3
- Phantom: SAM1; Type: SAM; Serial: TP-1697
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Ch165/Area Scan (101x71x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.160 W/kg

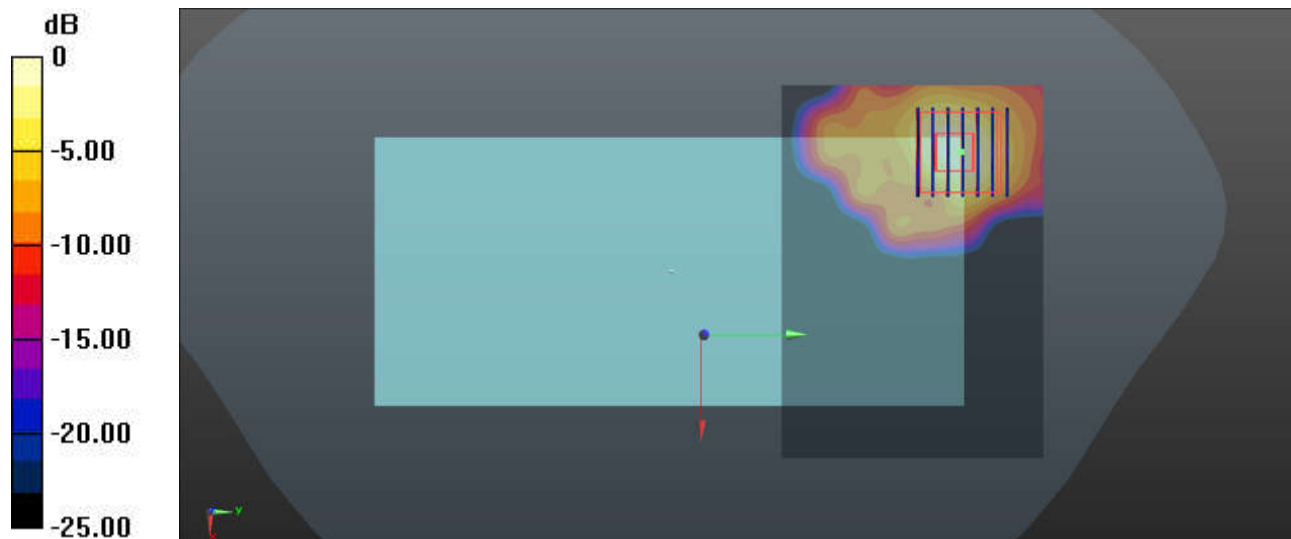
**Ch165/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 0.7790 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.292 W/kg

**SAR(1 g) = 0.061 W/kg; SAR(10 g) = 0.019 W/kg**

Maximum value of SAR (measured) = 0.165 W/kg



0 dB = 0.160 W/kg = -7.96 dBW/kg

**54\_WCDMA IV\_RMC 12.2Kbps\_Bottom Side\_0mm\_Ch1312**

Communication System: UID 0, UMTS (0); Frequency: 1712.4 MHz; Duty Cycle: 1:1  
Medium: HSL\_1750 Medium parameters used:  $f = 1712.4$  MHz;  $\sigma = 1.336$  S/m;  $\epsilon_r = 41.312$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.2 °C ; Liquid Temperature : 22.7 °C

## DASY5 Configuration:

- Probe: ES3DV3 - SN3293; ConvF(5.4, 5.4, 5.4); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.11 (7439)

**Ch1312/Area Scan (41x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 8.07 W/kg

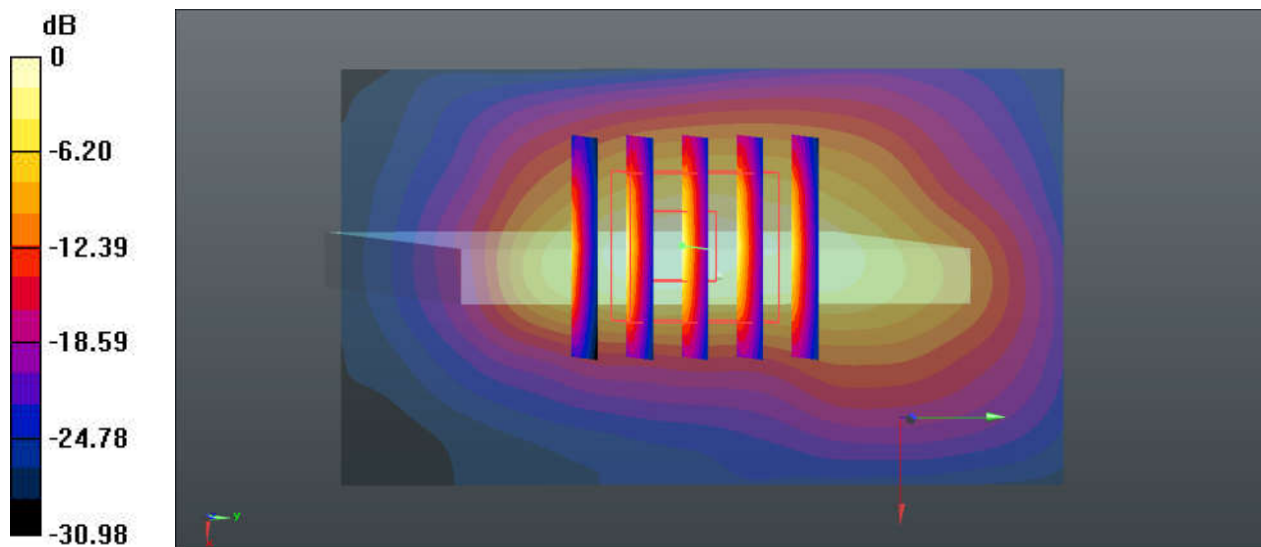
**Ch1312/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 65.01 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 12.6 W/kg

**SAR(1 g) = 5.93 W/kg; SAR(10 g) = 2.57 W/kg**

Maximum value of SAR (measured) = 8.81 W/kg



0 dB = 8.07 W/kg = 9.07 dBW/kg

**55\_WLAN5GHz\_802.11a 6Mbps\_Top Side\_0mm\_Ch52**

Communication System: UID 0, 802.11a (0); Frequency: 5260 MHz; Duty Cycle: 1:1.049

Medium: HSL\_5000 Medium parameters used:  $f = 5260$  MHz;  $\sigma = 4.612$  S/m;  $\epsilon_r = 36.705$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.8 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3954; ConvF(4.98, 4.98, 4.98); Calibrated: 2019.4.25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2018.12.3
- Phantom: SAM1; Type: SAM; Serial: TP-1697
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Ch52/Area Scan (51x81x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 10.7 W/kg

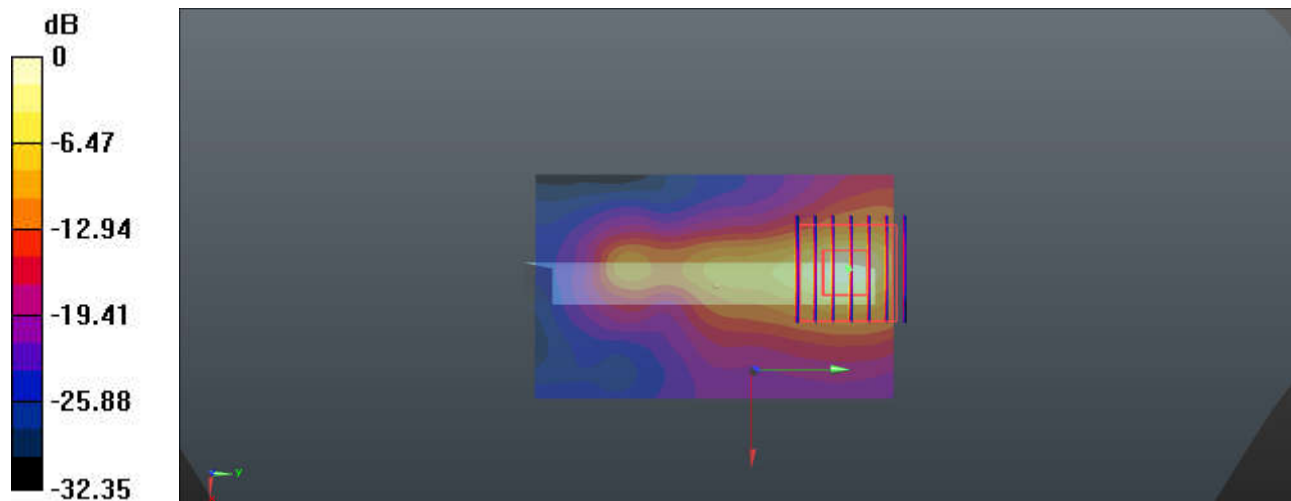
**Ch52/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 19.92 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 20.6 W/kg

**SAR(1 g) = 3.67 W/kg; SAR(10 g) = 0.920 W/kg**

Maximum value of SAR (measured) = 11.1 W/kg



0 dB = 10.7 W/kg = 10.29 dBW/kg

**56\_WLAN5GHz\_802.11a 6Mbps\_Back\_0mm\_Ch100**

Communication System: UID 0, 802.11a (0); Frequency: 5500 MHz; Duty Cycle: 1:1.049

Medium: HSL\_5000 Medium parameters used:  $f = 5500$  MHz;  $\sigma = 4.886$  S/m;  $\epsilon_r = 36.148$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3954; ConvF(4.51, 4.51, 4.51); Calibrated: 2019.4.25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2018.12.3
- Phantom: SAM1; Type: SAM; Serial: TP-1697
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Ch100/Area Scan (111x61x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 3.65 W/kg

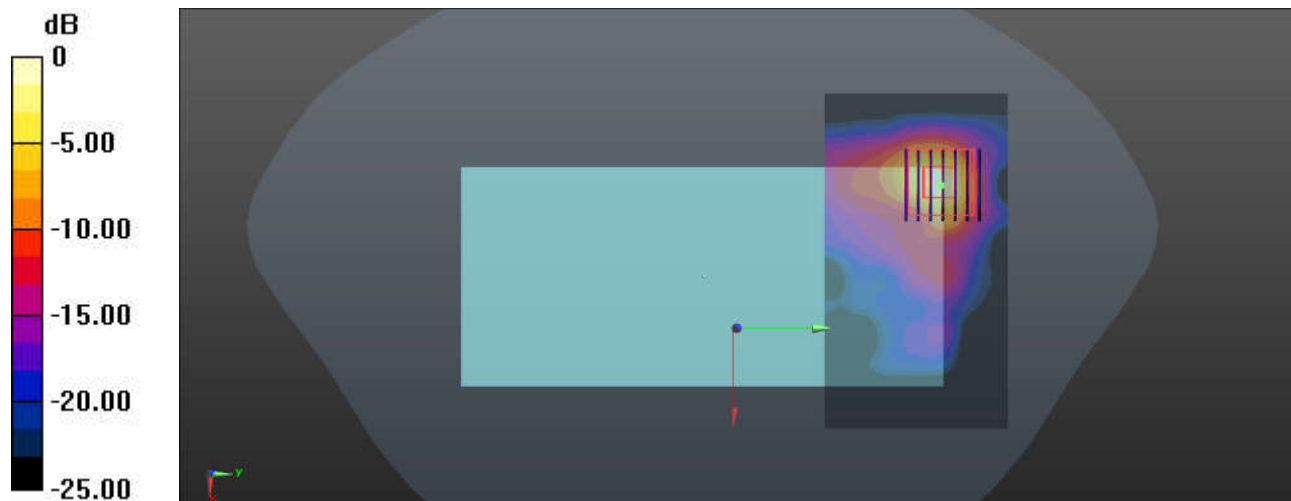
**Ch100/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 0.3650 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 7.37 W/kg

**SAR(1 g) = 1.57 W/kg; SAR(10 g) = 0.363 W/kg**

Maximum value of SAR (measured) = 4.39 W/kg



0 dB = 3.65 W/kg = 5.62 dBW/kg



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## ***Appendix C.     DASY Calibration Certificate***

The DASY 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.



In Collaboration with

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Fax: +86-10-62304633-2504

E-mail: cttl@chinattl.com

http://www.chinattl.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:

- 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%.