

07_LTE Band 2_20M_QPSK_1RB_49Offset_Left Cheek_Ch18900

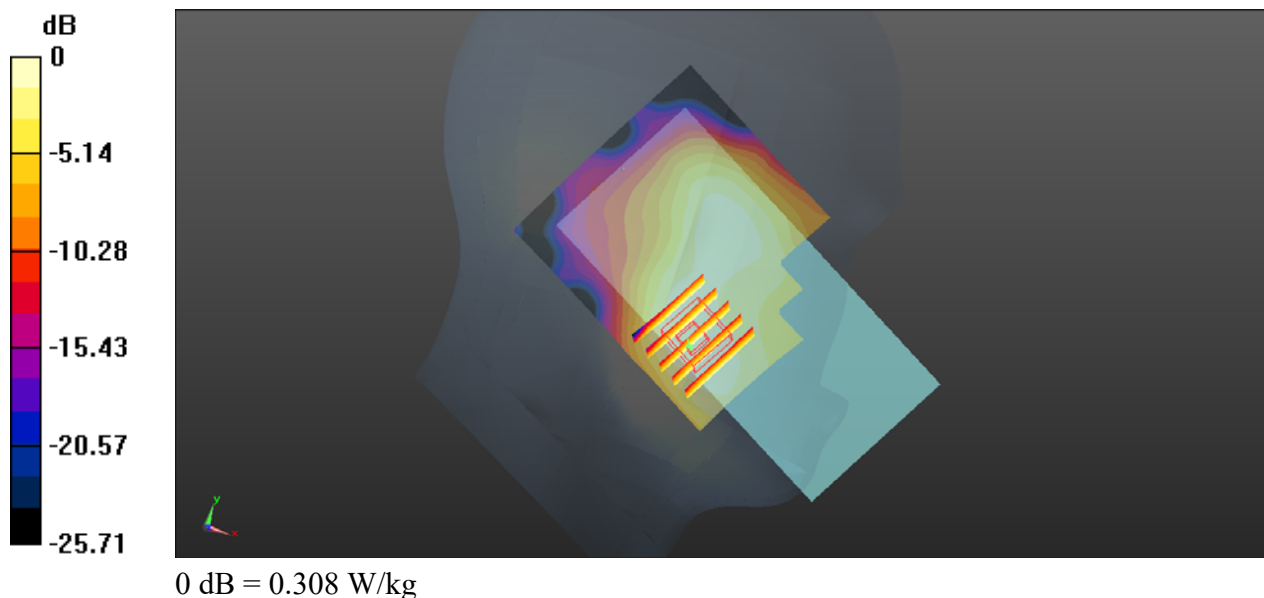
Communication System: UID 0, LTE (0); Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: HSL_1900_201113 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.436$ S/m; $\epsilon_r = 39.231$;
 $\rho = 1000$ kg/m³
Ambient Temperature : 23.5 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7576; ConvF(8.58, 8.58, 8.58); Calibrated: 2020.01.22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn528; Calibrated: 2020.03.16
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.13 (7474)

Ch18900/Area Scan (71x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.313 W/kg

Ch18900/Zoom Scan (6x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 3.418 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.365 W/kg
SAR(1 g) = 0.221 W/kg; SAR(10 g) = 0.138 W/kg
Maximum value of SAR (measured) = 0.308 W/kg



08_LTE Band 7_20M_QPSK_1RB_49Offset_Left Cheek_Ch21100

Communication System: UID 0, LTE (0); Frequency: 2535 MHz; Duty Cycle: 1:1

Medium: HSL_2600_201114 Medium parameters used: $f = 2535$ MHz; $\sigma = 1.98$ S/m; $\epsilon_r = 37.872$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7576; ConvF(7.47, 7.47, 7.47); Calibrated: 2020.01.22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn528; Calibrated: 2020.03.16
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.13 (7474)

Ch21100/Area Scan (81x91x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.251 W/kg

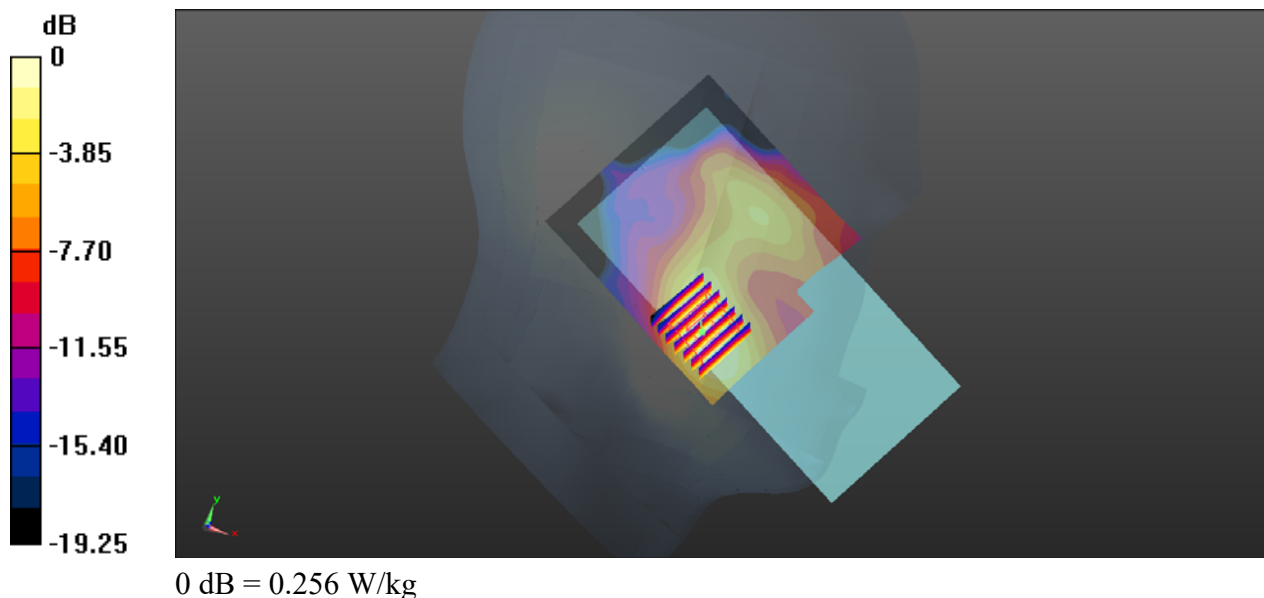
Ch21100/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.649 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.309 W/kg

SAR(1 g) = 0.196 W/kg; SAR(10 g) = 0.088 W/kg

Maximum value of SAR (measured) = 0.256 W/kg



09_LTE Band 41_20M_QPSK_1RB_49Offset_Left Cheek_Ch40185

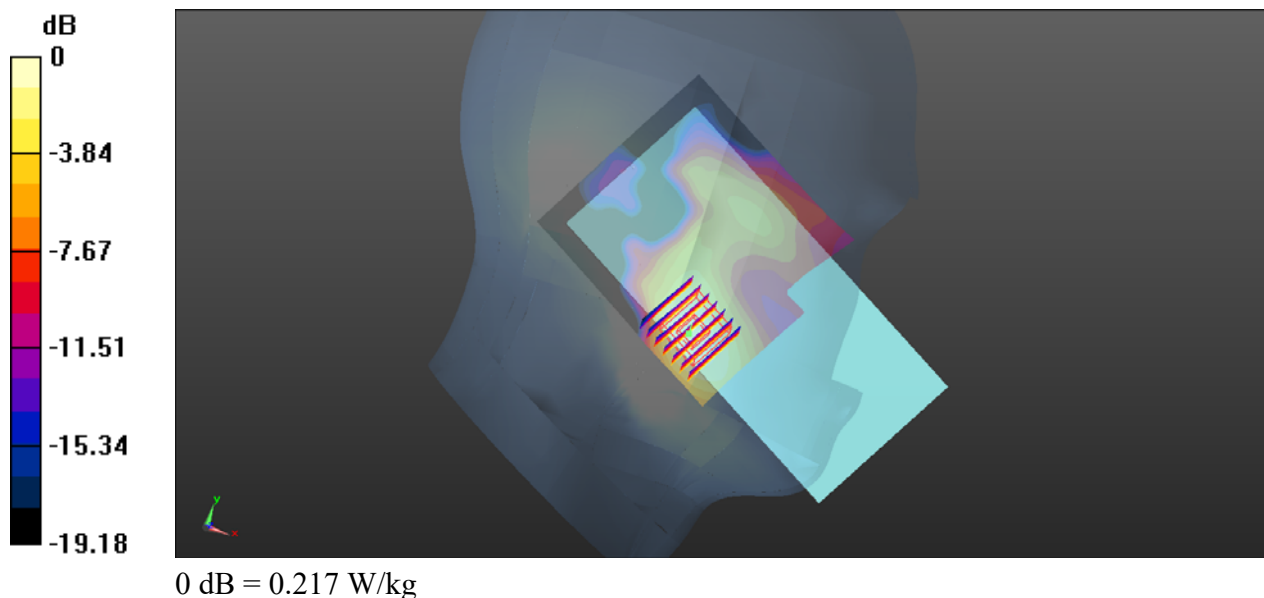
Communication System: UID 0, LTE (0); Frequency: 2549.5 MHz; Duty Cycle: 1:1.59
Medium: HSL_2600_201114 Medium parameters used: $f = 2549.5$ MHz; $\sigma = 1.996$ S/m; $\epsilon_r = 37.833$; $\rho = 1000$ kg/m³
Ambient Temperature : 23.5 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7576; ConvF(7.47, 7.47, 7.47); Calibrated: 2020.01.22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn528; Calibrated: 2020.03.16
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.13 (7474)

Ch40185/Area Scan (81x91x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.225 W/kg

Ch40185/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 2.315 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 0.264 W/kg
SAR(1 g) = 0.140 W/kg; SAR(10 g) = 0.075 W/kg
Maximum value of SAR (measured) = 0.217 W/kg



10_WLAN2.4GHz_802.11b 1Mbps_Left Cheek_Ch6

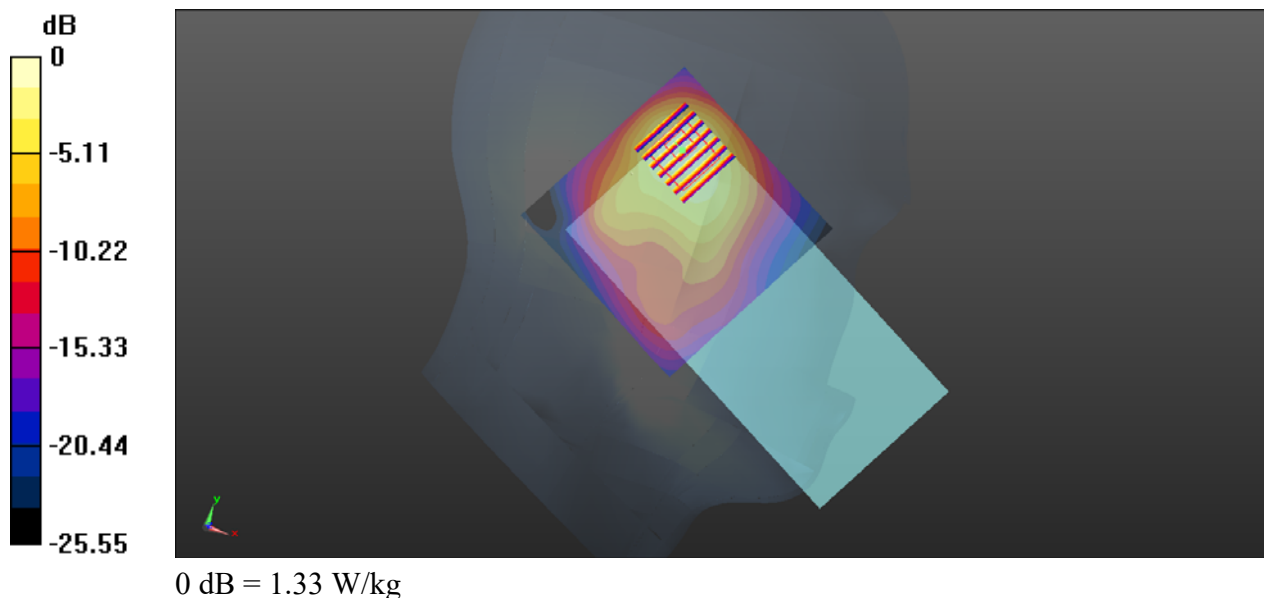
Communication System: UID 0, WIFI (0); Frequency: 2437 MHz; Duty Cycle: 1:1.007
Medium: HSL_2450_201114 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.851$ S/m; $\epsilon_r = 37.563$;
 $\rho = 1000$ kg/m³
Ambient Temperature : 23.4 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7576; ConvF(7.76, 7.76, 7.76); Calibrated: 2020.01.22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn528; Calibrated: 2020.03.16
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.13 (7474)

Ch6/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 1.39 W/kg

Ch6/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 15.36 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 1.78 W/kg
SAR(1 g) = 0.802 W/kg; SAR(10 g) = 0.399 W/kg
Maximum value of SAR (measured) = 1.33 W/kg



11_WLAN5GHz_802.11n-HT40 MCS0_Left Tilted_Ch54

Communication System: UID 0, WIFI (0); Frequency: 5270 MHz; Duty Cycle: 1:1.038
Medium: HSL_5250_201118 Medium parameters used: $f = 5270$ MHz; $\sigma = 4.639$ S/m; $\epsilon_r = 36.713$;
 $\rho = 1000$ kg/m³
Ambient Temperature : 23.3 °C; Liquid Temperature : 22.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(5.4, 5.4, 5.4); Calibrated: 2020.09.30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020.07.27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch54/Area Scan (91x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.34 W/kg

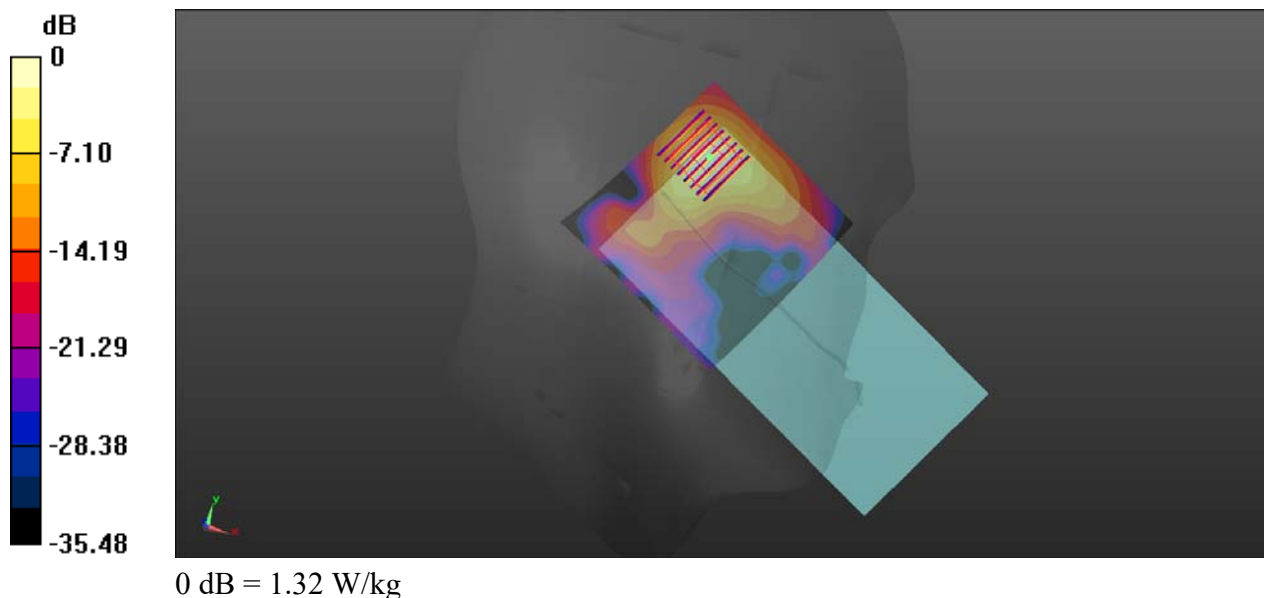
Ch54/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 6.806 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 2.17 W/kg

SAR(1 g) = 0.531 W/kg; SAR(10 g) = 0.166 W/kg

Maximum value of SAR (measured) = 1.32 W/kg



12_WLAN5GHz_802.11ac-VHT80 MCS0_Left Tilted_Ch138

Communication System: UID 0, WIFI (0); Frequency: 5690 MHz; Duty Cycle: 1:1.078

Medium: HSL_5750_201120 Medium parameters used: $f = 5690$ MHz; $\sigma = 4.945$ S/m; $\epsilon_r = 35.64$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(5.02, 5.02, 5.02); Calibrated: 2020.09.30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020.07.27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch138/Area Scan (91x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.73 W/kg

Ch138/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 9.493 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 2.93 W/kg

SAR(1 g) = 0.701 W/kg; SAR(10 g) = 0.231 W/kg

Maximum value of SAR (measured) = 1.67 W/kg

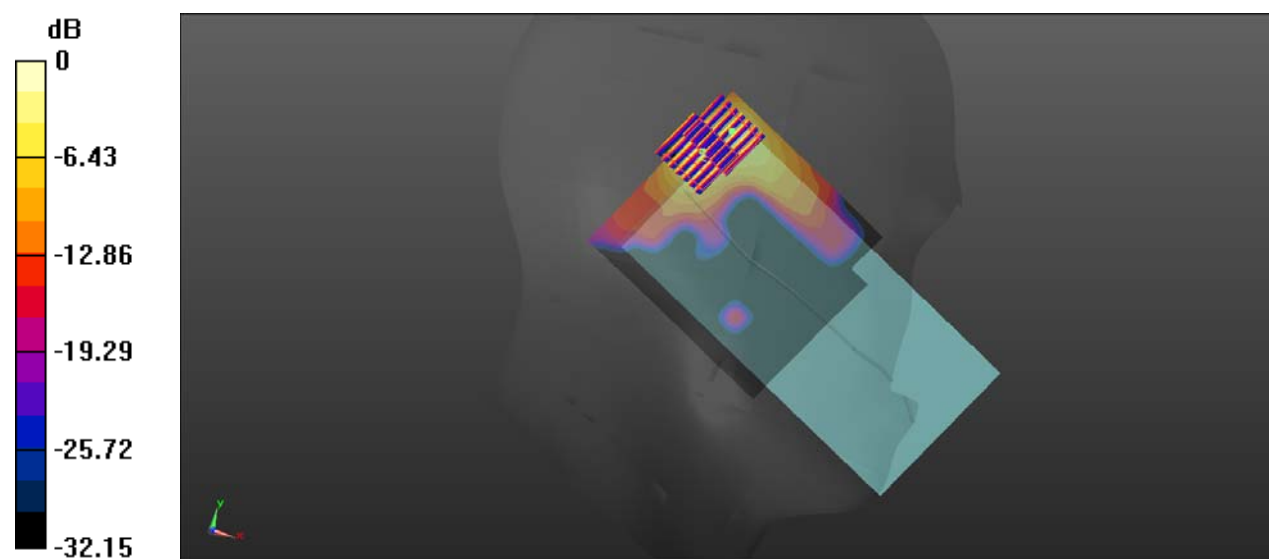
Ch138/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 9.493 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 2.91 W/kg

SAR(1 g) = 0.603 W/kg; SAR(10 g) = 0.214 W/kg

Maximum value of SAR (measured) = 1.69 W/kg



13_WLAN5GHz_802.11ac-VHT80 MCS0_Left Tilted_Ch155

Communication System: UID 0, WIFI (0); Frequency: 5775 MHz; Duty Cycle: 1:1.078

Medium: HSL_5750_201120 Medium parameters used: $f = 5775$ MHz; $\sigma = 5.034$ S/m; $\epsilon_r = 35.54$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(5.02, 5.02, 5.02); Calibrated: 2020.09.30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020.07.27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch155/Area Scan (91x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.612 W/kg

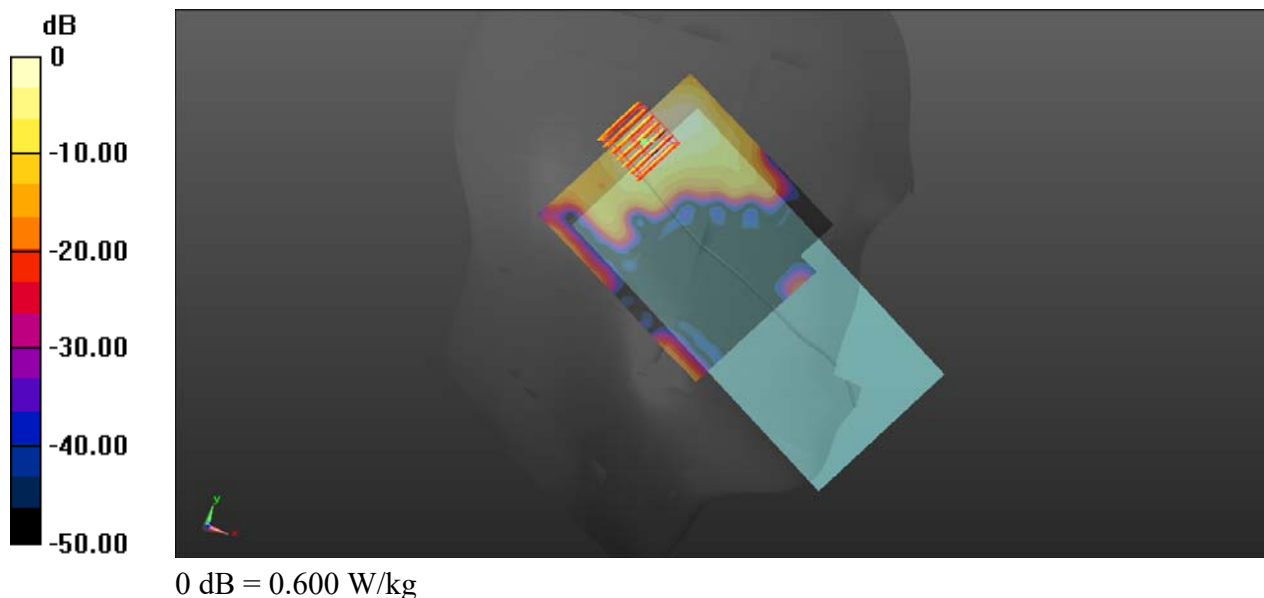
Ch155/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 7.188 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 1.01 W/kg

SAR(1 g) = 0.249 W/kg; SAR(10 g) = 0.080 W/kg

Maximum value of SAR (measured) = 0.600 W/kg



14_Bluetooth_DH5 1Mbps_Left Cheek_Ch39

Communication System: UID 0, Bluetooth (0); Frequency: 2441 MHz; Duty Cycle: 1:1.293
Medium: HSL_2450_201116 Medium parameters used: $f = 2441$ MHz; $\sigma = 1.719$ S/m; $\epsilon_r = 40.81$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(7.95, 7.95, 7.95); Calibrated: 2020.09.30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020.07.27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch39/Area Scan (81x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.218 W/kg

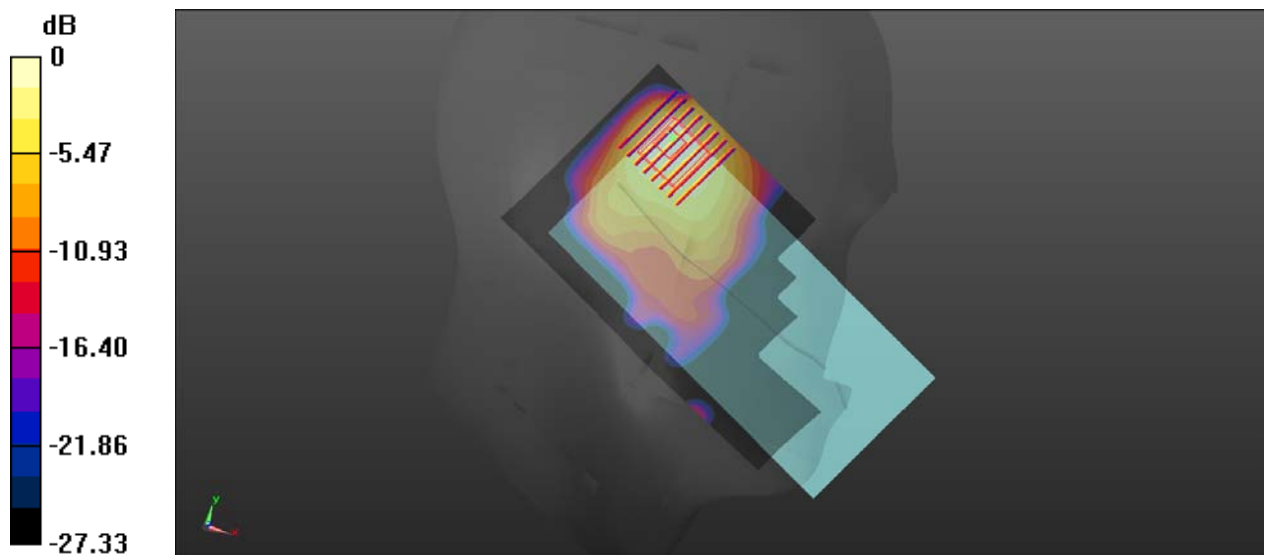
Ch39/Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.077 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.258 W/kg

SAR(1 g) = 0.109 W/kg; SAR(10 g) = 0.054 W/kg

Maximum value of SAR (measured) = 0.183 W/kg



0 dB = 0.183 W/kg

15_GSM850_GPRS(2 Tx slots)_Back_5mm_Ch251

Communication System: UID 0, GPRS/EDGE10 (0); Frequency: 848.8 MHz; Duty Cycle: 1:4.15
Medium: HSL_835_201114 Medium parameters used: $f = 849$ MHz; $\sigma = 0.896$ S/m; $\epsilon_r = 41.11$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C; Liquid Temperature : 22.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(9.54, 9.54, 9.54); Calibrated: 2020.09.30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020.07.27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch251/Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

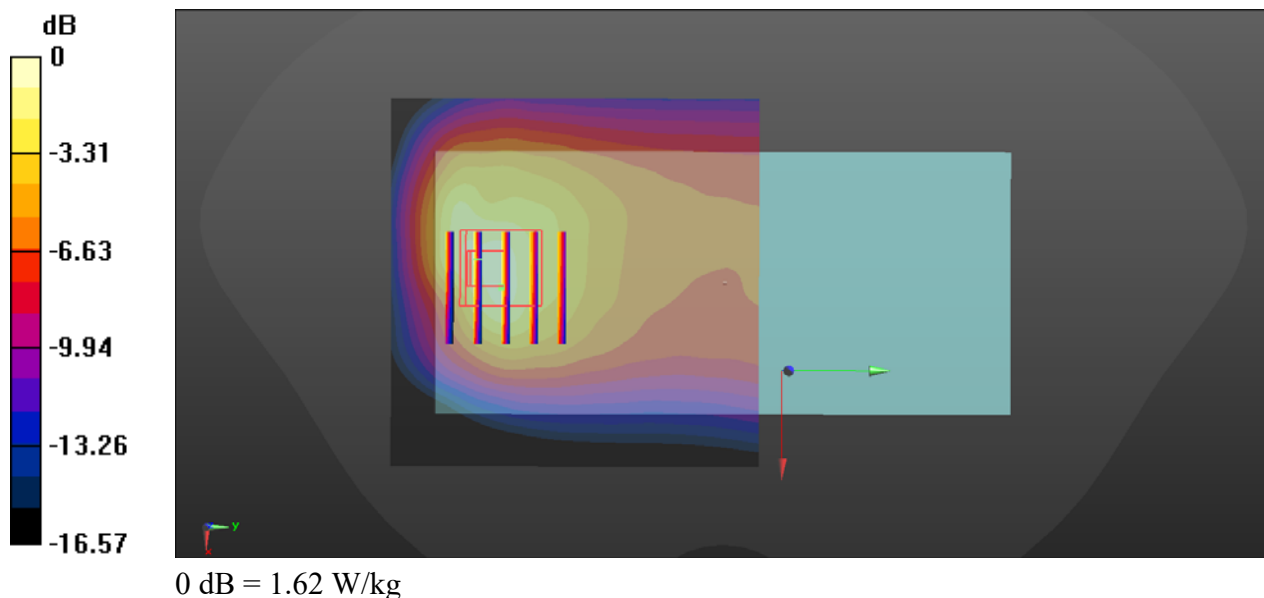
Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.58 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 2.03 W/kg

SAR(1 g) = 1.06 W/kg; SAR(10 g) = 0.598 W/kg

Maximum value of SAR (measured) = 1.62 W/kg



16_GSM1900_GPRS(2 Tx slots)_Bottom Side_5mm_Ch512

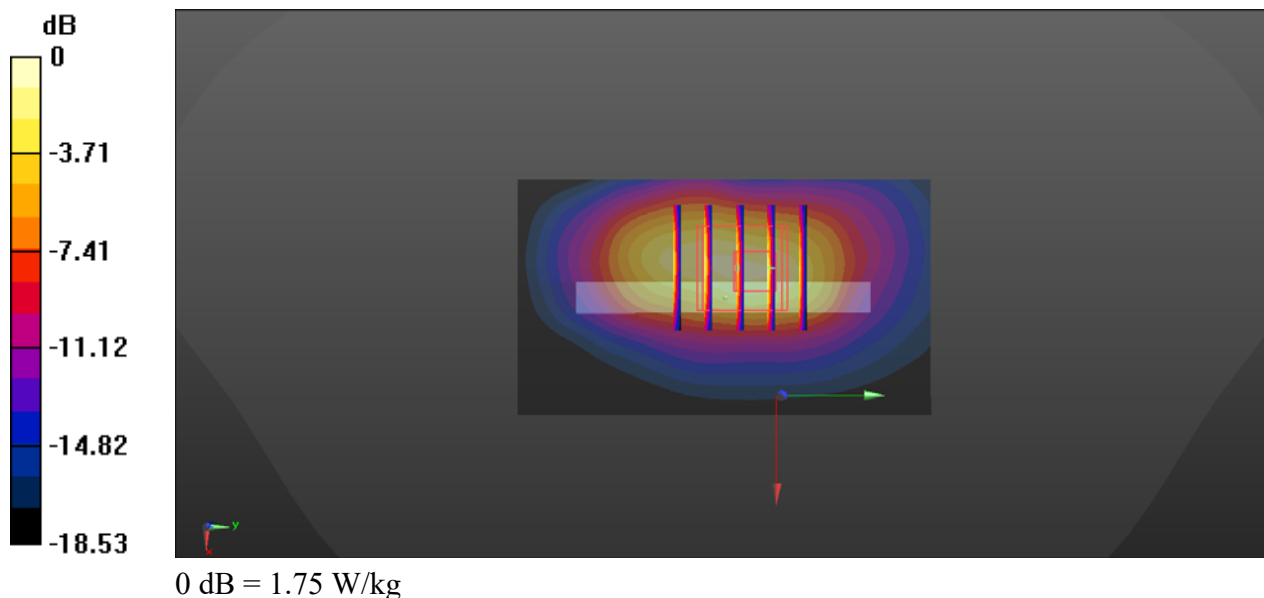
Communication System: UID 0, GPRS/EDGE10 (0); Frequency: 1850.2 MHz; Duty Cycle: 1:4.15
Medium: HSL_1900_201115 Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.357$ S/m; $\epsilon_r = 39.509$; $\rho = 1000$ kg/m³
Ambient Temperature : 23.6 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(8.34, 8.34, 8.34); Calibrated: 2020.09.30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020.07.27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch512/Area Scan (41x71x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 1.43 W/kg

Ch512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 0.5180 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 2.13 W/kg
SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.505 W/kg
Maximum value of SAR (measured) = 1.75 W/kg



17_WCDMA V_RMC 12.2Kbps_Back_5mm_Ch4233

Communication System: UID 0, UMTS (0); Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium: HSL_835_201114 Medium parameters used: $f = 847$ MHz; $\sigma = 0.894$ S/m; $\epsilon_r = 41.133$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C; Liquid Temperature : 22.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(9.54, 9.54, 9.54); Calibrated: 2020.09.30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020.07.27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch4233/Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.58 W/kg

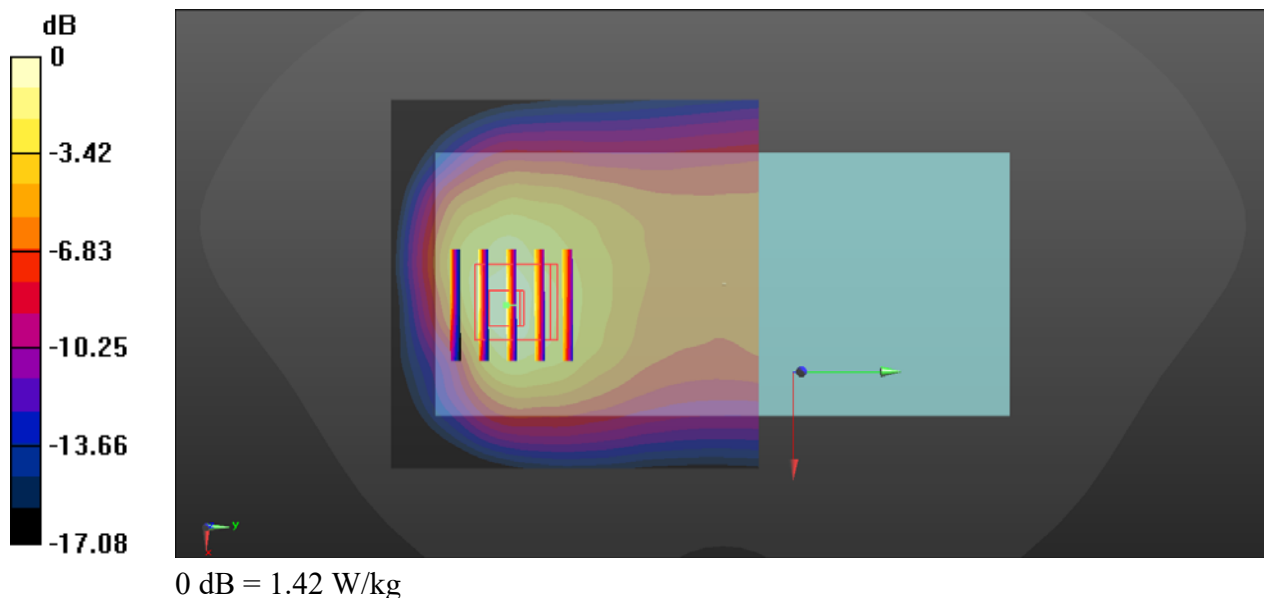
Ch4233/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.25 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.79 W/kg

SAR(1 g) = 0.960 W/kg; SAR(10 g) = 0.539 W/kg

Maximum value of SAR (measured) = 1.42 W/kg



18_WCDMA II_RMC 12.2Kbps_Back_5mm_Ch9262

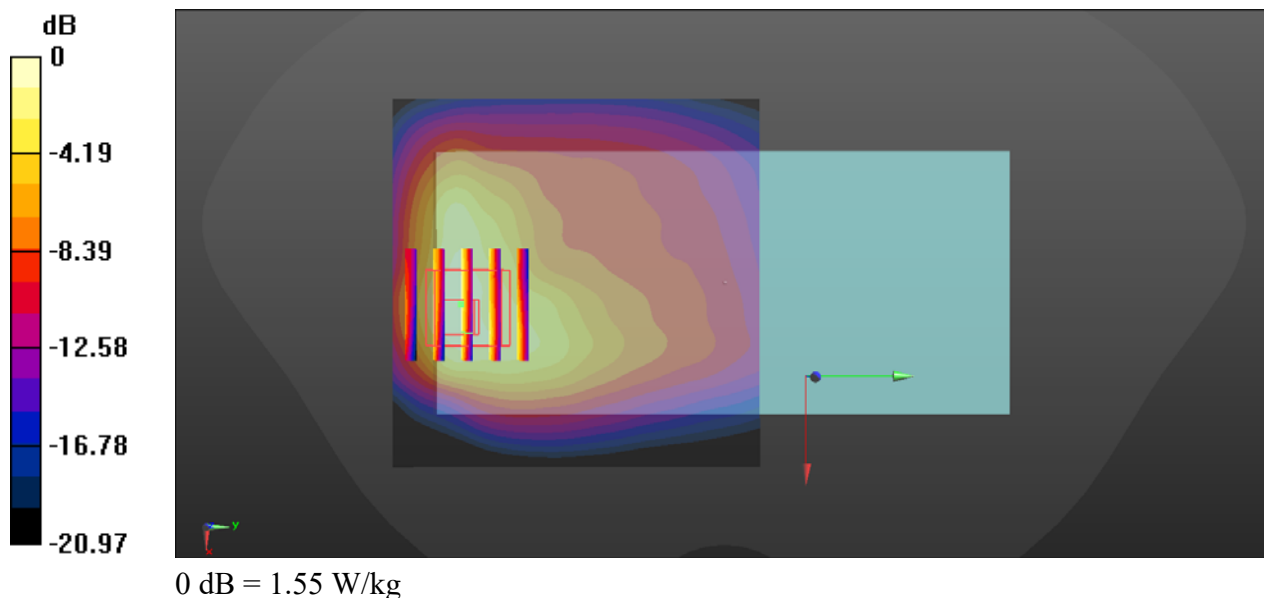
Communication System: UID 0, UMTS (0); Frequency: 1852.4 MHz; Duty Cycle: 1:1
Medium: HSL_1900_201115 Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.359$ S/m; $\epsilon_r = 39.501$; $\rho = 1000$ kg/m³
Ambient Temperature : 23.6 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(8.34, 8.34, 8.34); Calibrated: 2020.09.30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020.07.27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch9262/Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.76 W/kg

Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.47 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 1.97 W/kg
SAR(1 g) = 0.981 W/kg; SAR(10 g) = 0.520 W/kg
Maximum value of SAR (measured) = 1.55 W/kg



19_LTE Band 5_10M_QPSK_1RB_25Offset_Back_5mm_Ch20525

Communication System: UID 0, LTE (0); Frequency: 836.5 MHz; Duty Cycle: 1:1
Medium: HSL_835_201114 Medium parameters used: $f = 836.5$ MHz; $\sigma = 0.884$ S/m; $\epsilon_r = 41.261$;
 $\rho = 1000$ kg/m³
Ambient Temperature : 23.4 °C; Liquid Temperature : 22.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(9.54, 9.54, 9.54); Calibrated: 2020.09.30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020.07.27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch20525/Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.60 W/kg

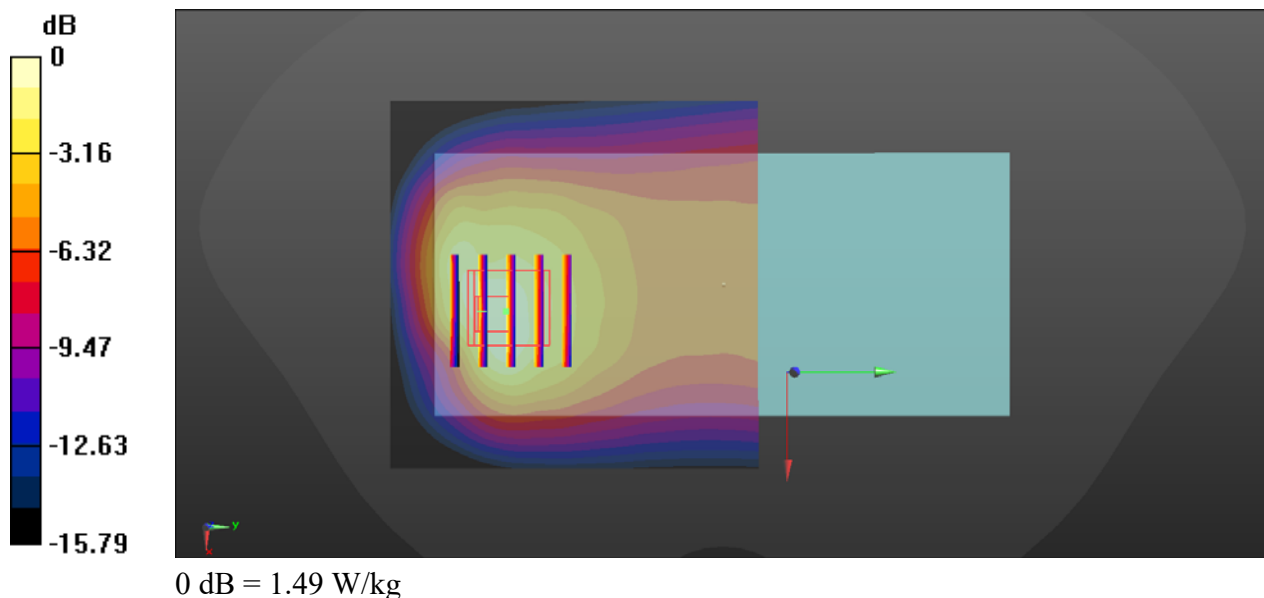
Ch20525/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.78 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 1.86 W/kg

SAR(1 g) = 0.998 W/kg; SAR(10 g) = 0.579 W/kg

Maximum value of SAR (measured) = 1.49 W/kg



20_LTE Band 26_15M_QPSK_1RB_37Offset_Back_5mm_Ch26865

Communication System: UID 0, LTE (0); Frequency: 831.5 MHz; Duty Cycle: 1:1

Medium: HSL_835_201114 Medium parameters used: $f = 831.5$ MHz; $\sigma = 0.88$ S/m; $\epsilon_r = 41.322$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C; Liquid Temperature : 22.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(9.54, 9.54, 9.54); Calibrated: 2020.09.30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020.07.27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch26865/Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.18 W/kg

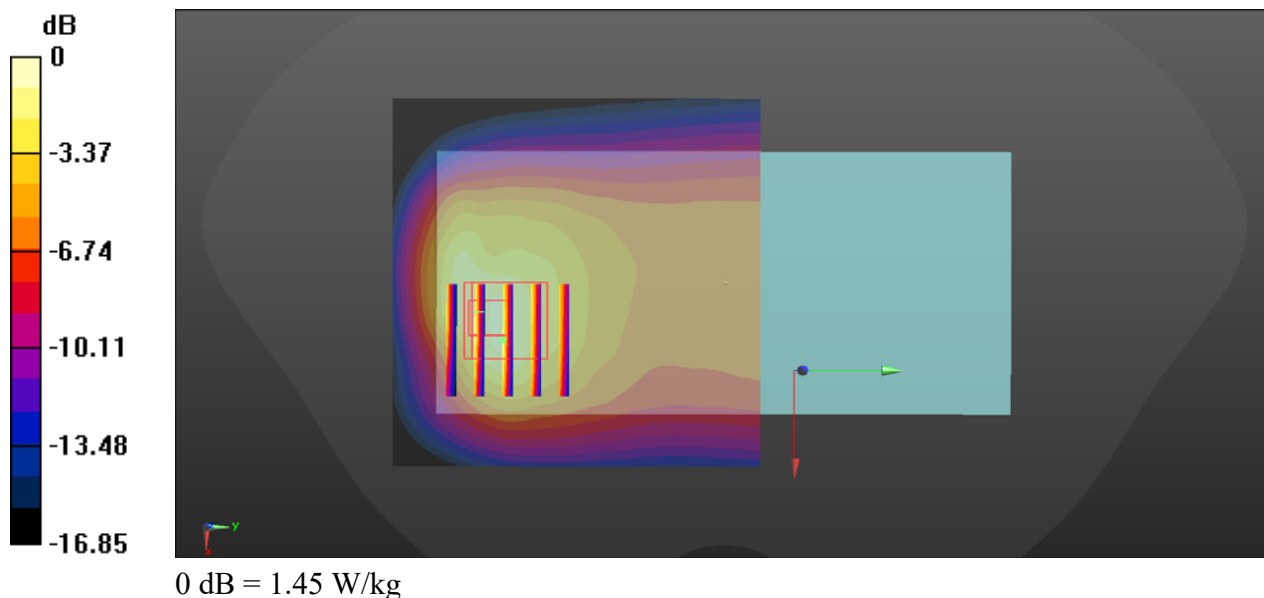
Ch26865/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.15 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.80 W/kg

SAR(1 g) = 0.963 W/kg; SAR(10 g) = 0.557 W/kg

Maximum value of SAR (measured) = 1.45 W/kg



21_LTE Band 2_20M_QPSK_50RB_0Offset_Bottom Side_5mm_Ch18700

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

Medium: HSL_1900_201115 Medium parameters used: $f = 1860$ MHz; $\sigma = 1.366$ S/m; $\epsilon_r = 39.475$;

$\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(8.34, 8.34, 8.34); Calibrated: 2020.09.30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020.07.27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

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

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

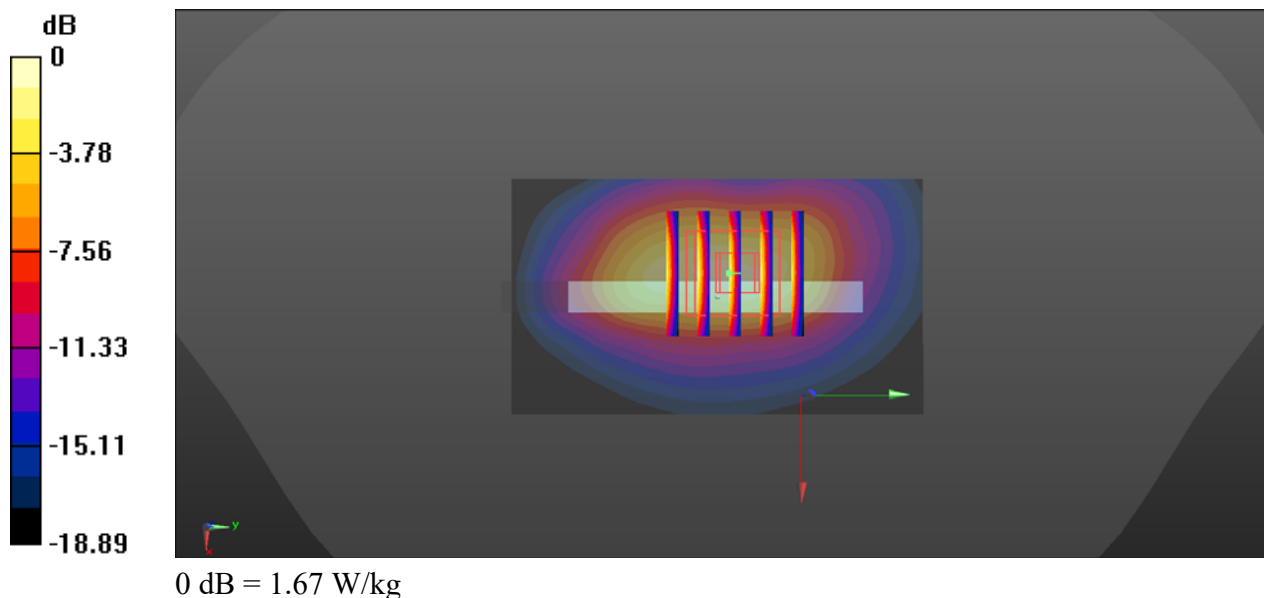
Ch18700/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.66 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 2.05 W/kg

SAR(1 g) = 1 W/kg; SAR(10 g) = 0.489 W/kg

Maximum value of SAR (measured) = 1.67 W/kg



22_LTE Band 7_20M_QPSK_1RB_49Offset_Bottom Side_5mm_Ch20850

Communication System: UID 0, LTE (0); Frequency: 2510 MHz; Duty Cycle: 1:1
Medium: HSL_2600_201117 Medium parameters used: $f = 2510$ MHz; $\sigma = 1.823$ S/m; $\epsilon_r = 40.148$;
 $\rho = 1000$ kg/m³
Ambient Temperature : 23.6 °C; Liquid Temperature : 22.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(7.66, 7.66, 7.66); Calibrated: 2020.09.30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020.07.27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch20850/Area Scan (41x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 2.04 W/kg

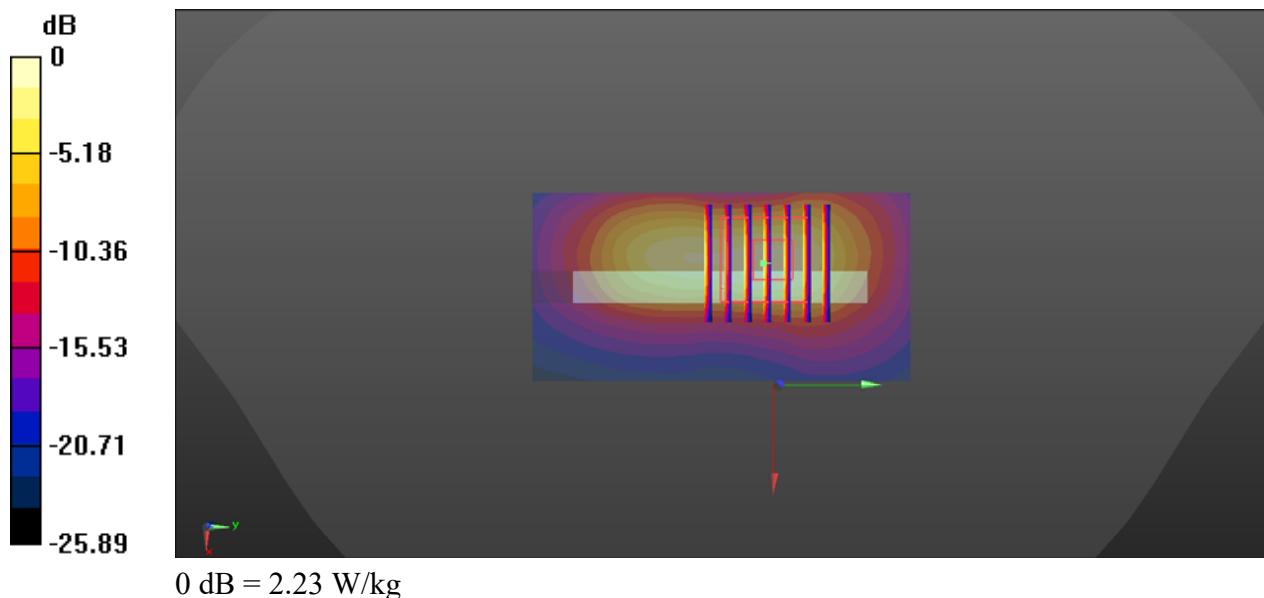
Ch20850/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 21.87 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 2.95 W/kg

SAR(1 g) = 1.15 W/kg; SAR(10 g) = 0.457 W/kg

Maximum value of SAR (measured) = 2.23 W/kg



23_LTE Band 41_20M_QPSK_1RB_49Offset_Bottom Side_5mm_Ch39750

Communication System: UID 0, LTE (0); Frequency: 2506 MHz; Duty Cycle: 1:1.59

Medium: HSL_2600_201117 Medium parameters used: $f = 2506$ MHz; $\sigma = 1.818$ S/m; $\epsilon_r = 40.162$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(7.66, 7.66, 7.66); Calibrated: 2020.09.30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020.07.27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch39750/Area Scan (31x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 2.12 W/kg

Ch39750/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 22.70 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 2.74 W/kg

SAR(1 g) = 1.08 W/kg; SAR(10 g) = 0.433 W/kg

Maximum value of SAR (measured) = 2.07 W/kg

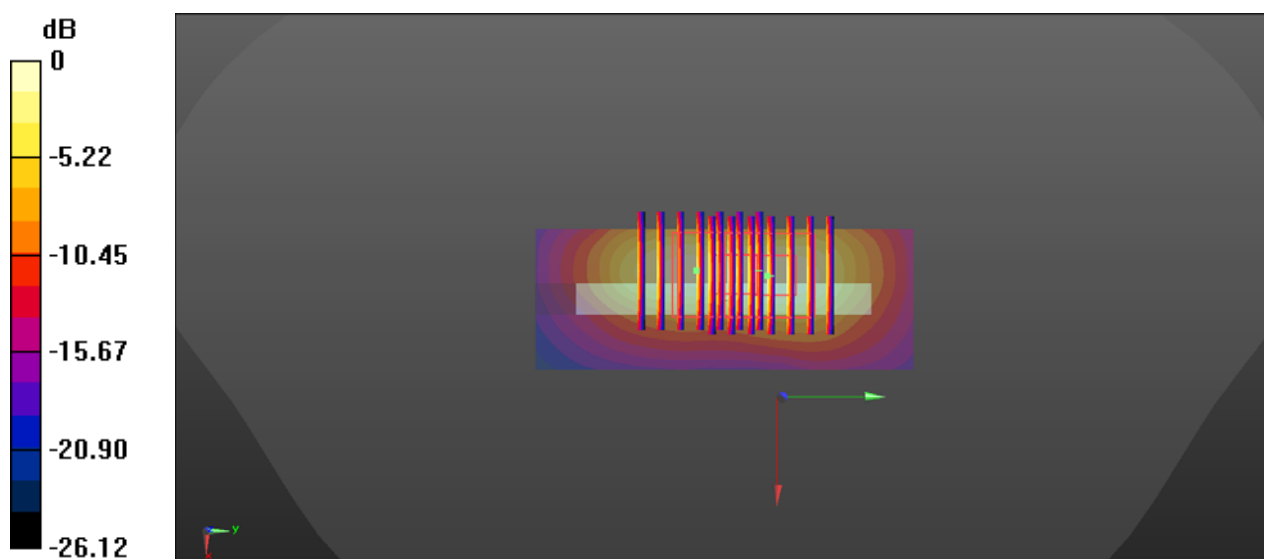
Ch39750/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 22.70 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 2.44 W/kg

SAR(1 g) = 0.887 W/kg; SAR(10 g) = 0.367 W/kg

Maximum value of SAR (measured) = 1.80 W/kg



0 dB = 1.80 W/kg

24_WLAN2.4GHz_802.11b 1Mbps_Back_5mm_Ch6

Communication System: UID 0, WIFI (0); Frequency: 2437 MHz; Duty Cycle: 1:1.007
Medium: HSL_2450_201116 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.851$ S/m; $\epsilon_r = 37.563$;
 $\rho = 1000$ kg/m³
Ambient Temperature : 23.5 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(7.95, 7.95, 7.95); Calibrated: 2020.09.30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020.07.27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch6/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.37 W/kg

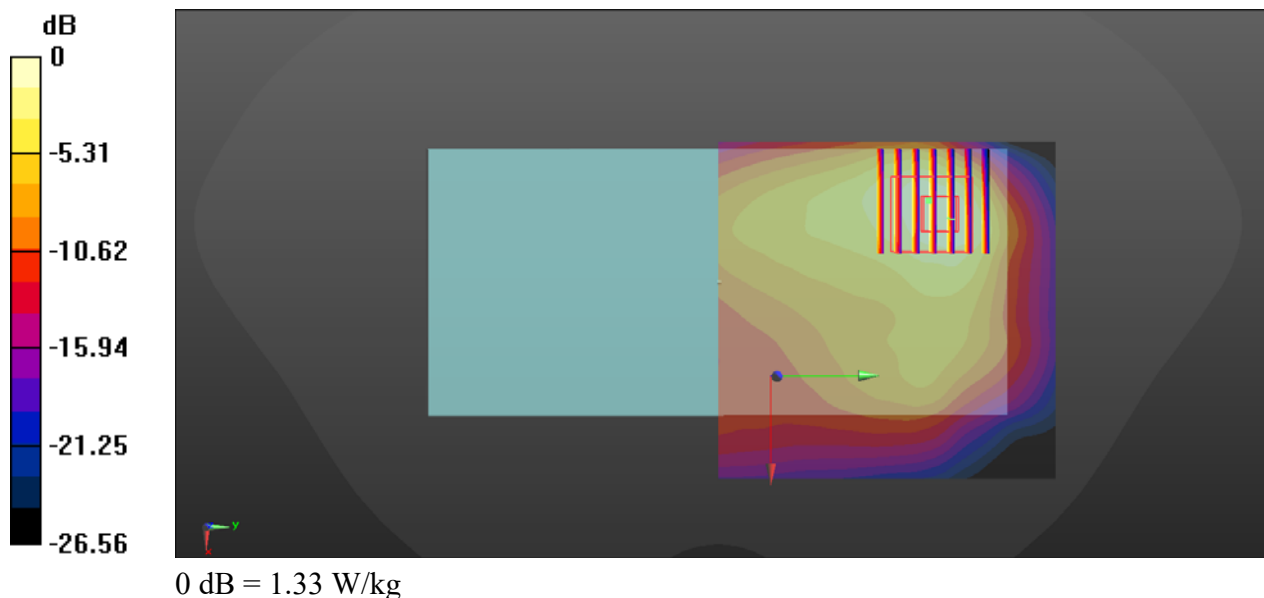
Ch6/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.817 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 1.83 W/kg

SAR(1 g) = 0.743 W/kg; SAR(10 g) = 0.349 W/kg

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



25_WLAN5GHz_802.11n-HT40 MCS0_Back_5mm_Ch46

Communication System: UID 0, WIFI (0); Frequency: 5230 MHz; Duty Cycle: 1:1.038
Medium: HSL_5250_201118 Medium parameters used: $f = 5230$ MHz; $\sigma = 4.484$ S/m; $\epsilon_r = 36.273$;
 $\rho = 1000$ kg/m³
Ambient Temperature : 23.3 °C; Liquid Temperature : 22.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(5.4, 5.4, 5.4); Calibrated: 2020.09.30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020.07.27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch46/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.37 W/kg

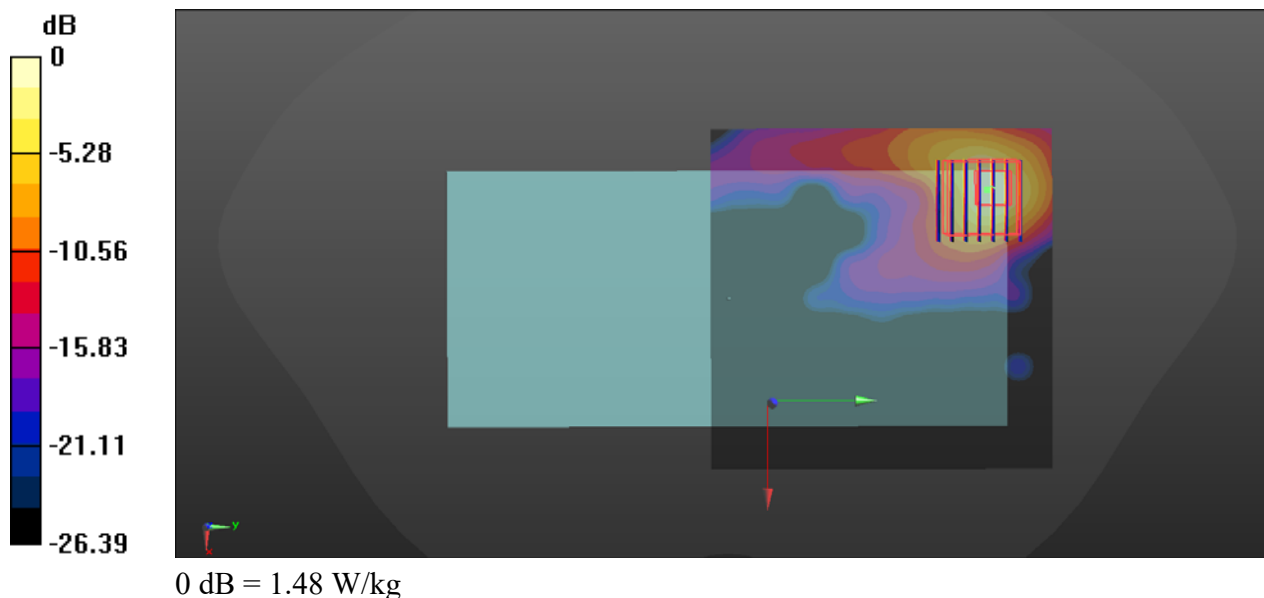
Ch46/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 3.378 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 2.36 W/kg

SAR(1 g) = 0.616 W/kg; SAR(10 g) = 0.180 W/kg

Maximum value of SAR (measured) = 1.48 W/kg



26_WLAN5GHz_802.11ac-VHT80 MCS0_Back_5mm_Ch155

Communication System: UID 0, WIFI (0); Frequency: 5775 MHz; Duty Cycle: 1:1.078

Medium: HSL_5750_201120 Medium parameters used: $f = 5775$ MHz; $\sigma = 5.034$ S/m; $\epsilon_r = 35.54$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(5.02, 5.02, 5.02); Calibrated: 2020.09.30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020.07.27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch155/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.08 W/kg

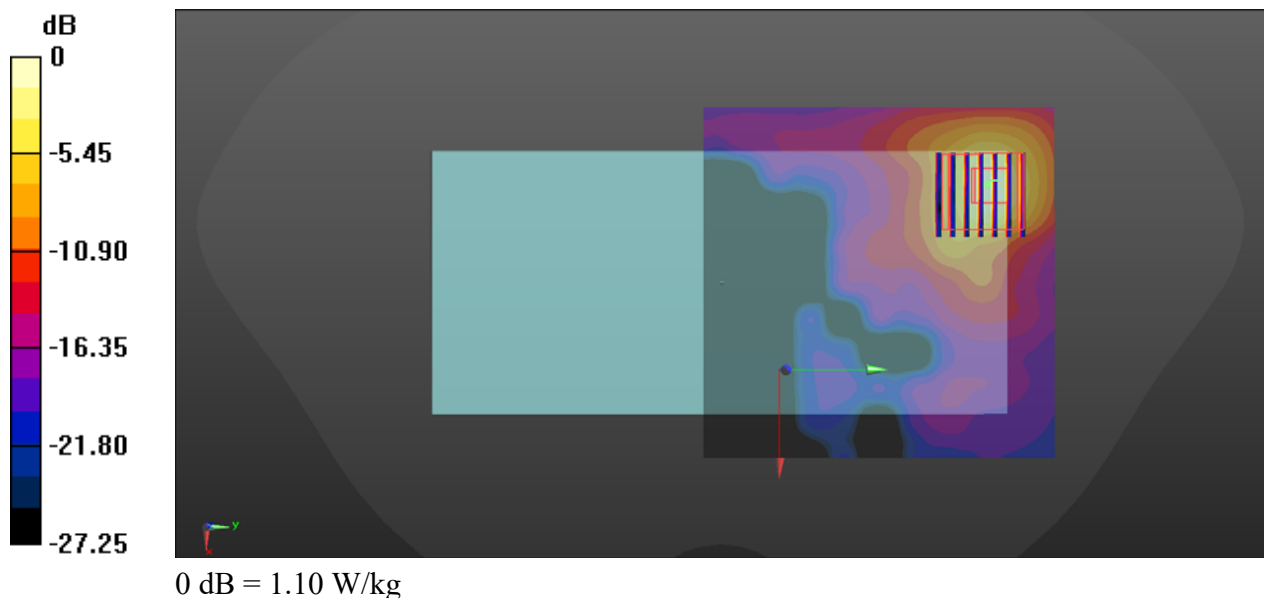
Ch155/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 0.5530 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 1.87 W/kg

SAR(1 g) = 0.436 W/kg; SAR(10 g) = 0.131 W/kg

Maximum value of SAR (measured) = 1.10 W/kg



27_Bluetooth_DH5 1Mbps_Back_5mm_Ch39

Communication System: UID 0, Bluetooth (0); Frequency: 2441 MHz; Duty Cycle: 1:1.293

Medium: HSL_2450_201116 Medium parameters used: $f = 2441$ MHz; $\sigma = 1.719$ S/m; $\epsilon_r = 40.81$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(7.95, 7.95, 7.95); Calibrated: 2020.09.30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020.07.27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch39/Area Scan (81x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

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

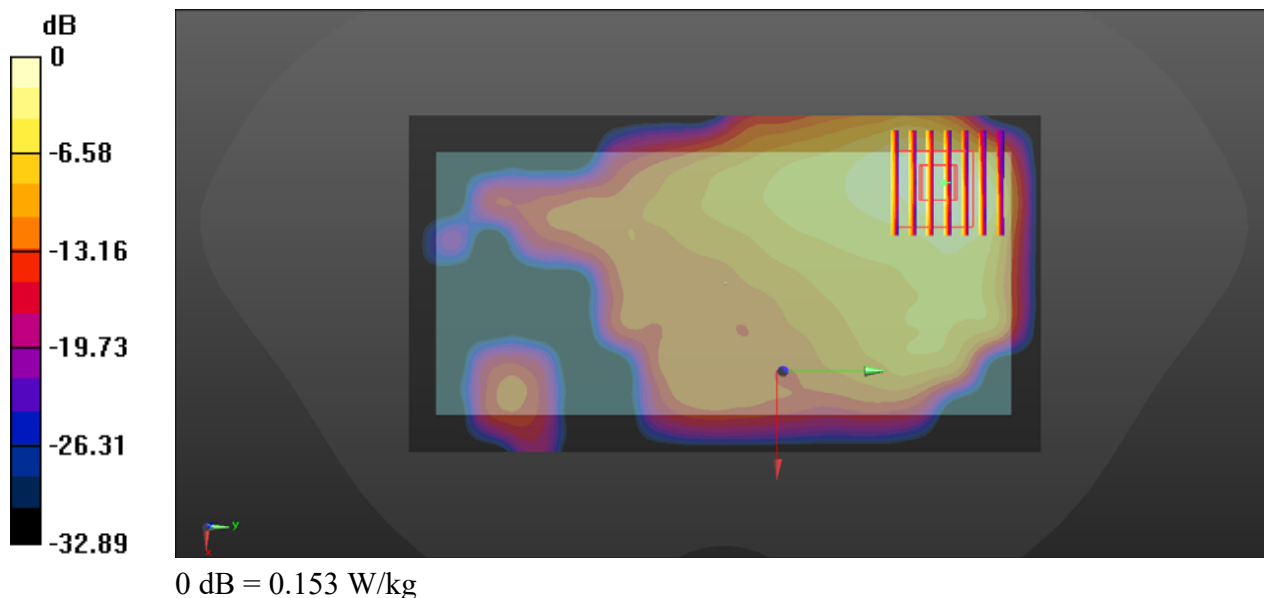
Ch39/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.594 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.209 W/kg

SAR(1 g) = 0.083 W/kg; SAR(10 g) = 0.038 W/kg

Maximum value of SAR (measured) = 0.153 W/kg



28_GSM850_GPRS(2 Tx slots)_Back_5mm_Ch251

Communication System: UID 0, GPRS/EDGE10 (0); Frequency: 848.8 MHz; Duty Cycle: 1:4.15
Medium: HSL_835_201114 Medium parameters used: $f = 849$ MHz; $\sigma = 0.896$ S/m; $\epsilon_r = 41.11$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C; Liquid Temperature : 22.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(9.54, 9.54, 9.54); Calibrated: 2020.09.30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020.07.27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch251/Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

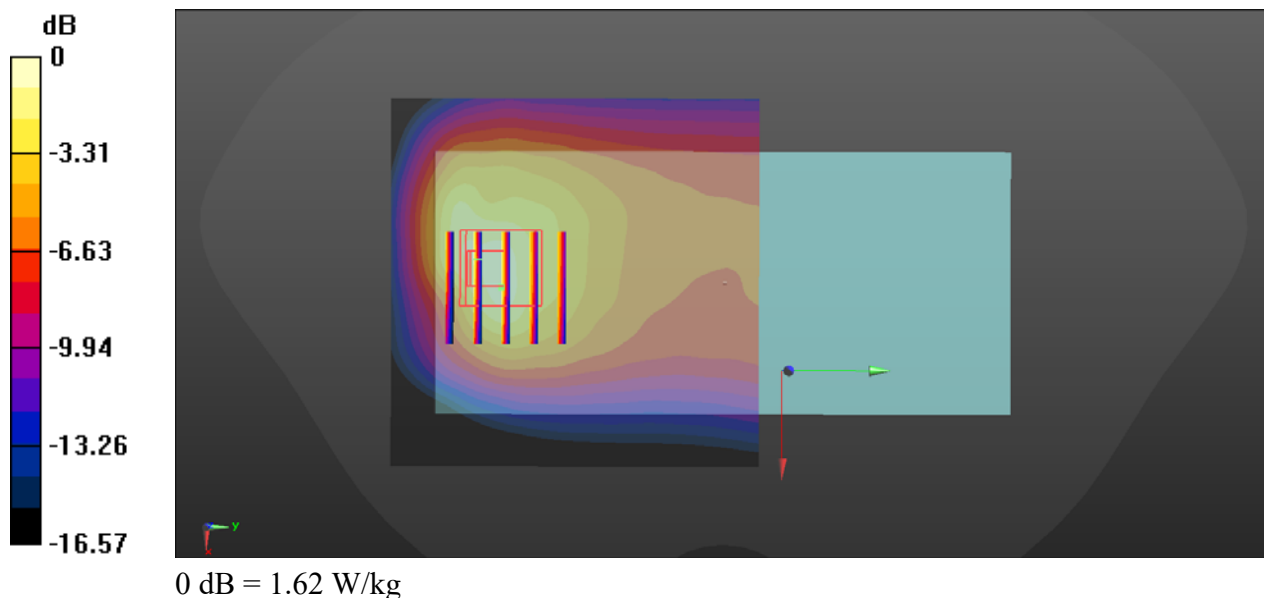
Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.58 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 2.03 W/kg

SAR(1 g) = 1.06 W/kg; SAR(10 g) = 0.598 W/kg

Maximum value of SAR (measured) = 1.62 W/kg



29_GSM1900_GPRS(2 Tx slots)_Back_5mm_Ch512

Communication System: UID 0, GPRS/EDGE10 (0); Frequency: 1850.2 MHz; Duty Cycle: 1:4.15
Medium: HSL_1900_201115 Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.357$ S/m; $\epsilon_r = 39.509$; $\rho = 1000$ kg/m³
Ambient Temperature : 23.6 °C; Liquid Temperature : 22.4 °C

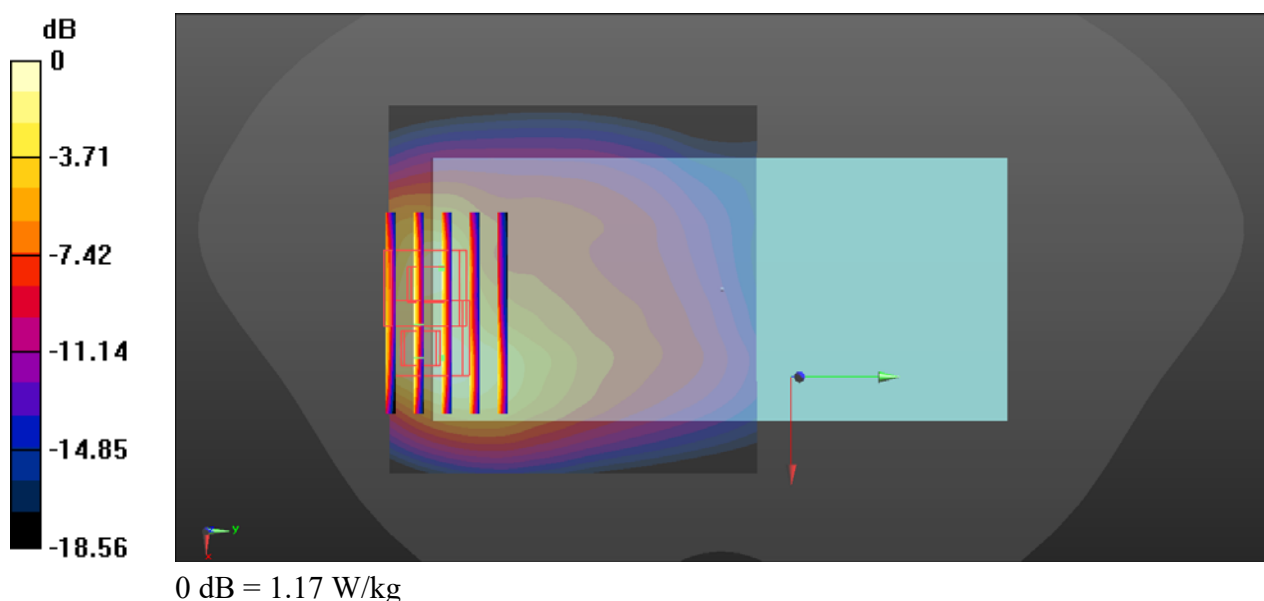
DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(8.34, 8.34, 8.34); Calibrated: 2020.09.30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020.07.27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch512/Area Scan (71x71x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 1.19 W/kg

Ch512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 7.246 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 1.59 W/kg
SAR(1 g) = 0.805 W/kg; SAR(10 g) = 0.436 W/kg
Maximum value of SAR (measured) = 1.25 W/kg

Ch512/Zoom Scan (5x5x7)/Cube 1: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 7.246 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 1.46 W/kg
SAR(1 g) = 0.780 W/kg; SAR(10 g) = 0.419 W/kg
Maximum value of SAR (measured) = 1.17 W/kg



30_WCDMA V_RMC 12.2Kbps_Back_5mm_Ch4233_Headset

Communication System: UID 0, UMTS (0); Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium: HSL_835_201114 Medium parameters used: $f = 847$ MHz; $\sigma = 0.894$ S/m; $\epsilon_r = 41.133$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C; Liquid Temperature : 22.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(9.54, 9.54, 9.54); Calibrated: 2020.09.30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020.07.27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch4233/Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.27 W/kg

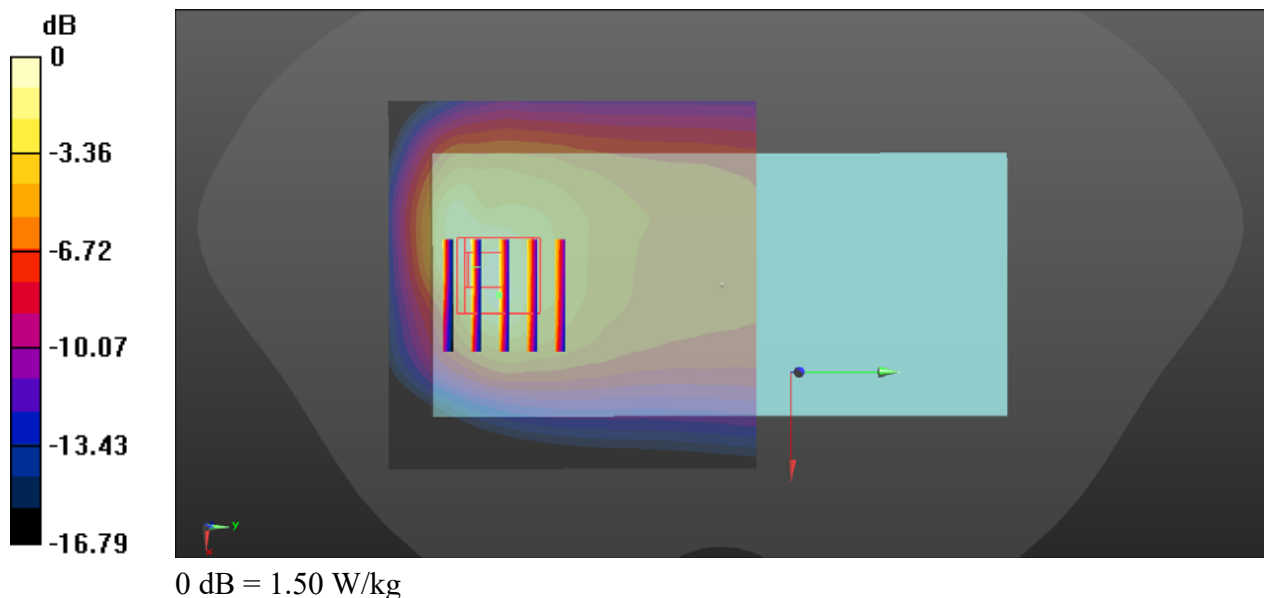
Ch4233/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.38 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.88 W/kg

SAR(1 g) = 0.976 W/kg; SAR(10 g) = 0.546 W/kg

Maximum value of SAR (measured) = 1.50 W/kg



31_WCDMA II_RMC 12.2Kbps_Back_5mm_Ch9262

Communication System: UID 0, UMTS (0); Frequency: 1852.4 MHz; Duty Cycle: 1:1
Medium: HSL_1900_201115 Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.359$ S/m; $\epsilon_r = 39.501$; $\rho = 1000$ kg/m³
Ambient Temperature : 23.6 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(8.34, 8.34, 8.34); Calibrated: 2020.09.30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020.07.27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch9262/Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.76 W/kg

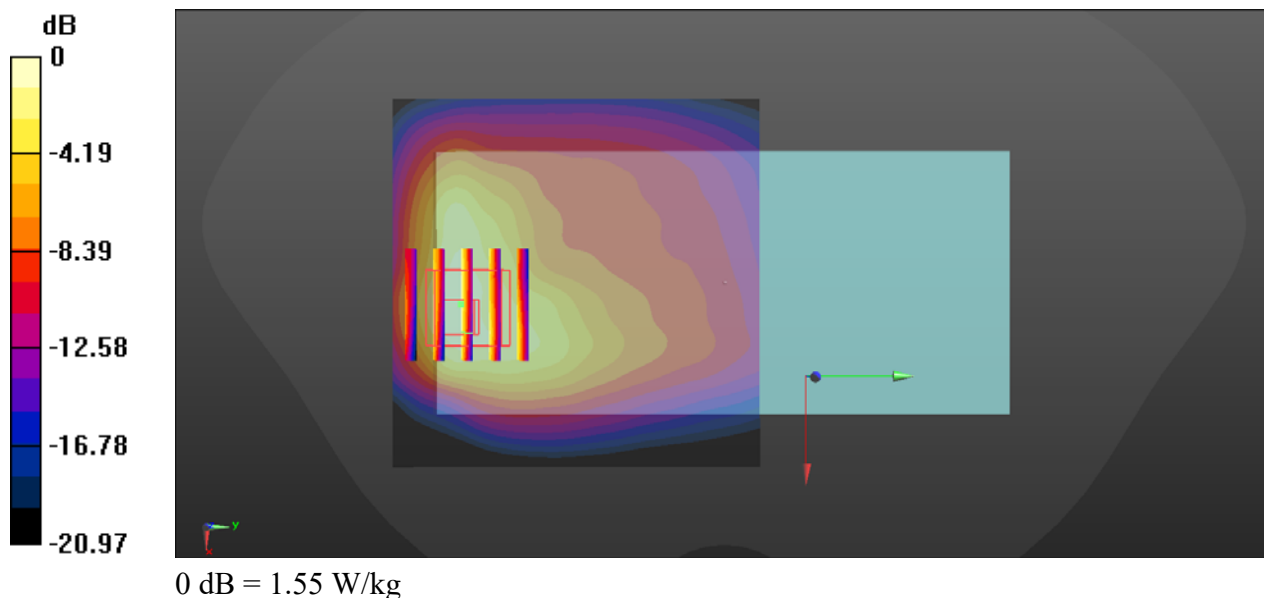
Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.47 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.97 W/kg

SAR(1 g) = 0.981 W/kg; SAR(10 g) = 0.520 W/kg

Maximum value of SAR (measured) = 1.55 W/kg



32_LTE Band 5_10M_QPSK_1RB_25Offset_Back_5mm_Ch20525

Communication System: UID 0, LTE (0); Frequency: 836.5 MHz; Duty Cycle: 1:1
Medium: HSL_835_201114 Medium parameters used: $f = 836.5$ MHz; $\sigma = 0.884$ S/m; $\epsilon_r = 41.261$;
 $\rho = 1000$ kg/m³
Ambient Temperature : 23.4 °C; Liquid Temperature : 22.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(9.54, 9.54, 9.54); Calibrated: 2020.09.30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020.07.27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch20525/Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.60 W/kg

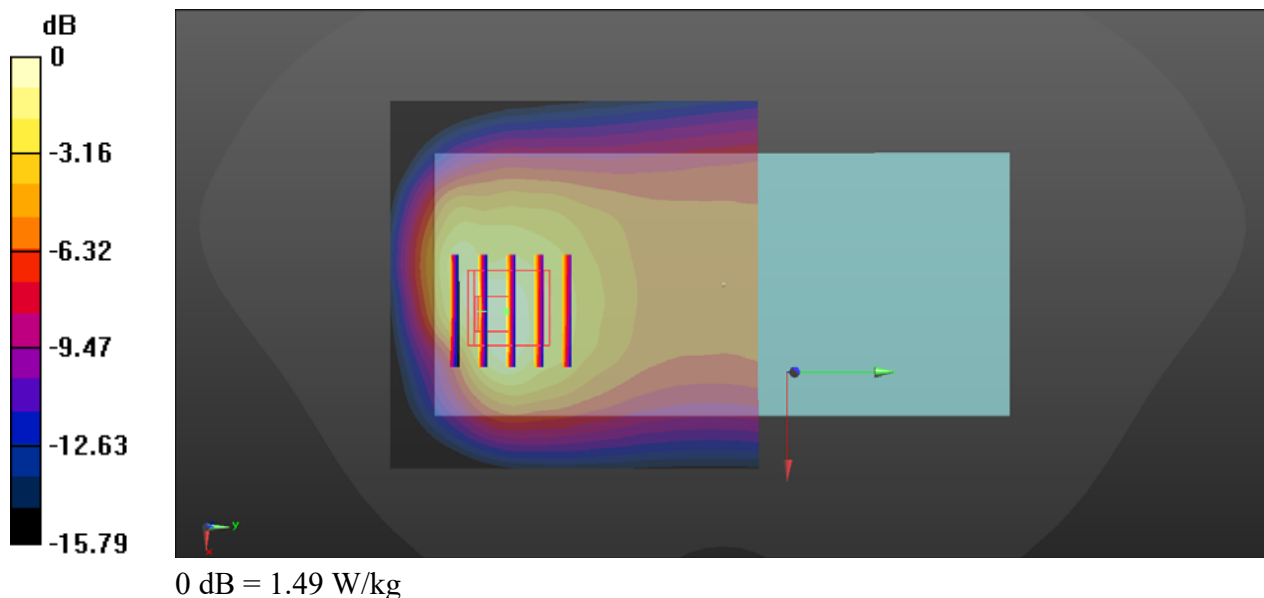
Ch20525/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.78 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 1.86 W/kg

SAR(1 g) = 0.998 W/kg; SAR(10 g) = 0.579 W/kg

Maximum value of SAR (measured) = 1.49 W/kg



33_LTE Band 26_15M_QPSK_1RB_37Offset_Back_5mm_Ch26865

Communication System: UID 0, LTE (0); Frequency: 831.5 MHz; Duty Cycle: 1:1

Medium: HSL_835_201114 Medium parameters used: $f = 831.5$ MHz; $\sigma = 0.88$ S/m; $\epsilon_r = 41.322$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C; Liquid Temperature : 22.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(9.54, 9.54, 9.54); Calibrated: 2020.09.30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020.07.27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch26865/Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.18 W/kg

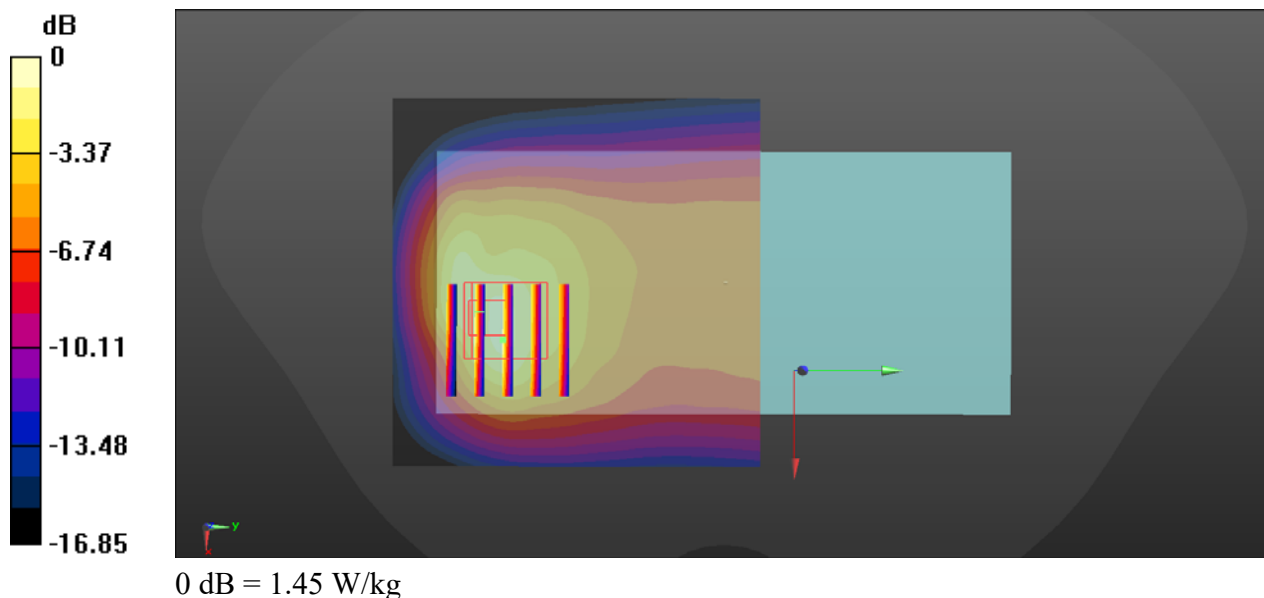
Ch26865/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.15 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.80 W/kg

SAR(1 g) = 0.963 W/kg; SAR(10 g) = 0.557 W/kg

Maximum value of SAR (measured) = 1.45 W/kg



34_LTE Band 2_20M_QPSK_50RB_0Offset_Back_5mm_Ch18700_Headset

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

Medium: HSL_1900_201115 Medium parameters used: $f = 1860$ MHz; $\sigma = 1.366$ S/m; $\epsilon_r = 39.475$;
 $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(8.34, 8.34, 8.34); Calibrated: 2020.09.30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020.07.27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

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

Maximum value of SAR (interpolated) = 1.94 W/kg

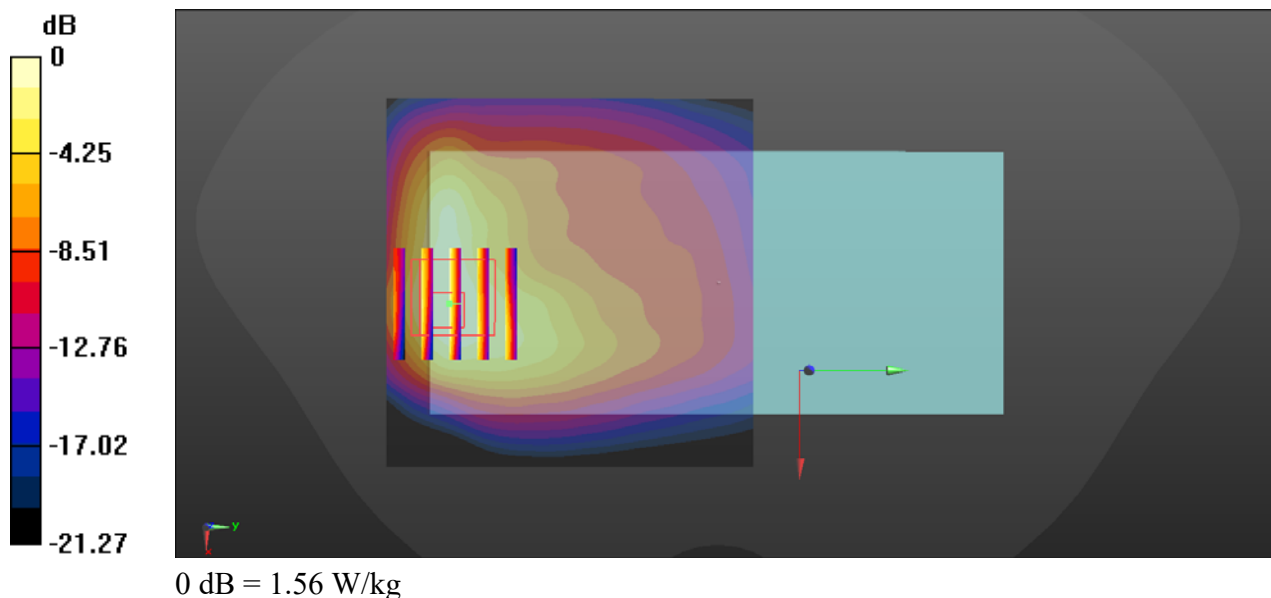
Ch18700/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 0.9090 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 2.09 W/kg

SAR(1 g) = 1.04 W/kg; SAR(10 g) = 0.546 W/kg

Maximum value of SAR (measured) = 1.56 W/kg



35_LTE Band 7_20M_QPSK_1RB_49Offset_Back_5mm_Ch20850

Communication System: UID 0, LTE (0); Frequency: 2510 MHz; Duty Cycle: 1:1
Medium: HSL_2600_201117 Medium parameters used: $f = 2510$ MHz; $\sigma = 1.823$ S/m; $\epsilon_r = 40.148$;
 $\rho = 1000$ kg/m³
Ambient Temperature : 23.6 °C; Liquid Temperature : 22.3 °C

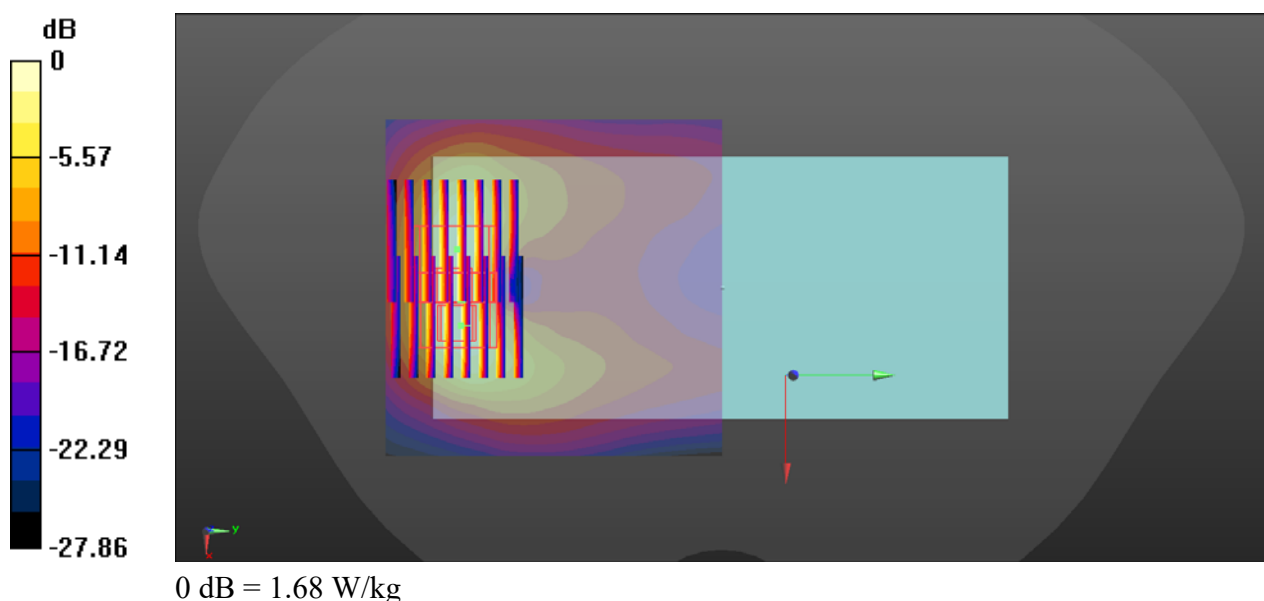
DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(7.66, 7.66, 7.66); Calibrated: 2020.09.30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020.07.27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch20850/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 1.70 W/kg

Ch20850/Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.814 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 2.35 W/kg
SAR(1 g) = 0.949 W/kg; SAR(10 g) = 0.393 W/kg
Maximum value of SAR (measured) = 1.77 W/kg

Ch20850/Zoom Scan (8x8x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.814 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 2.24 W/kg
SAR(1 g) = 0.899 W/kg; SAR(10 g) = 0.384 W/kg
Maximum value of SAR (measured) = 1.68 W/kg



36_LTE Band 41_20M_QPSK_1RB_49Offset_Back_5mm_Ch39750

Communication System: UID 0, LTE (0); Frequency: 2506 MHz; Duty Cycle: 1:1.59
Medium: HSL_2600_201117 Medium parameters used: $f = 2506$ MHz; $\sigma = 1.818$ S/m; $\epsilon_r = 40.162$;
 $\rho = 1000$ kg/m³
Ambient Temperature : 23.6 °C; Liquid Temperature : 22.3 °C

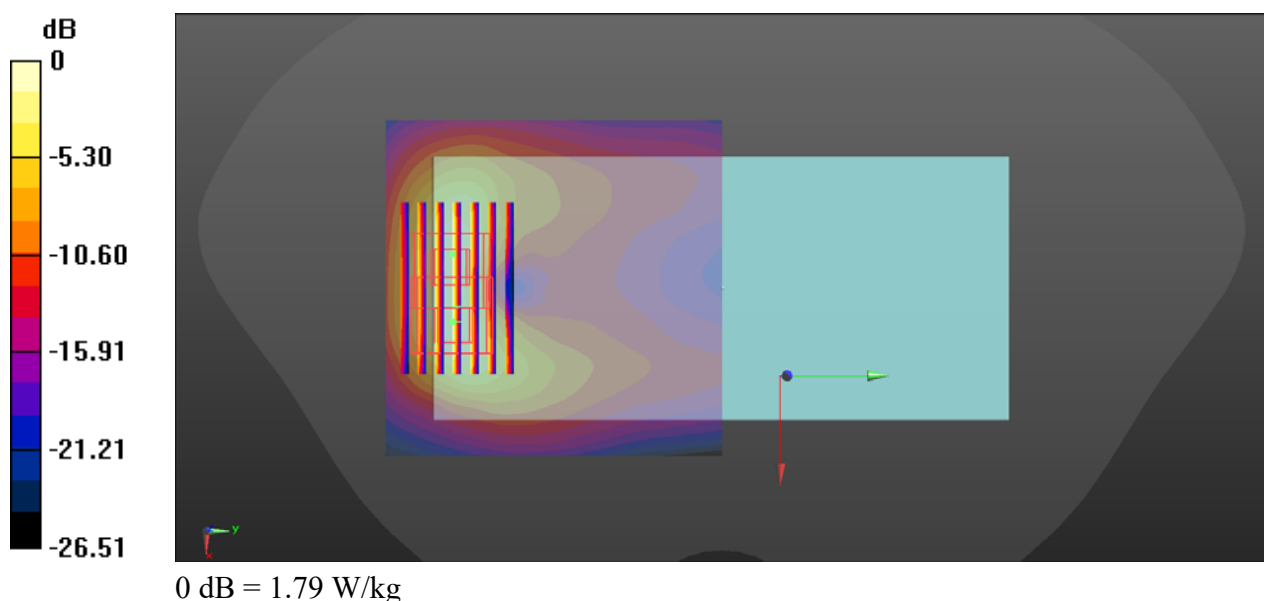
DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(7.66, 7.66, 7.66); Calibrated: 2020.09.30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020.07.27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch39750/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 1.84 W/kg

Ch39750/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.140 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 2.54 W/kg
SAR(1 g) = 1.05 W/kg; SAR(10 g) = 0.434 W/kg
Maximum value of SAR (measured) = 1.95 W/kg

Ch39750/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.140 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 2.35 W/kg
SAR(1 g) = 0.964 W/kg; SAR(10 g) = 0.414 W/kg
Maximum value of SAR (measured) = 1.79 W/kg



37_WLAN2.4GHz_802.11b 1Mbps_Back_5mm_Ch6

Communication System: UID 0, WIFI (0); Frequency: 2437 MHz; Duty Cycle: 1:1.007
Medium: HSL_2450_201116 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.851$ S/m; $\epsilon_r = 37.563$;
 $\rho = 1000$ kg/m³
Ambient Temperature : 23.5 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(7.95, 7.95, 7.95); Calibrated: 2020.09.30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020.07.27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch6/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.37 W/kg

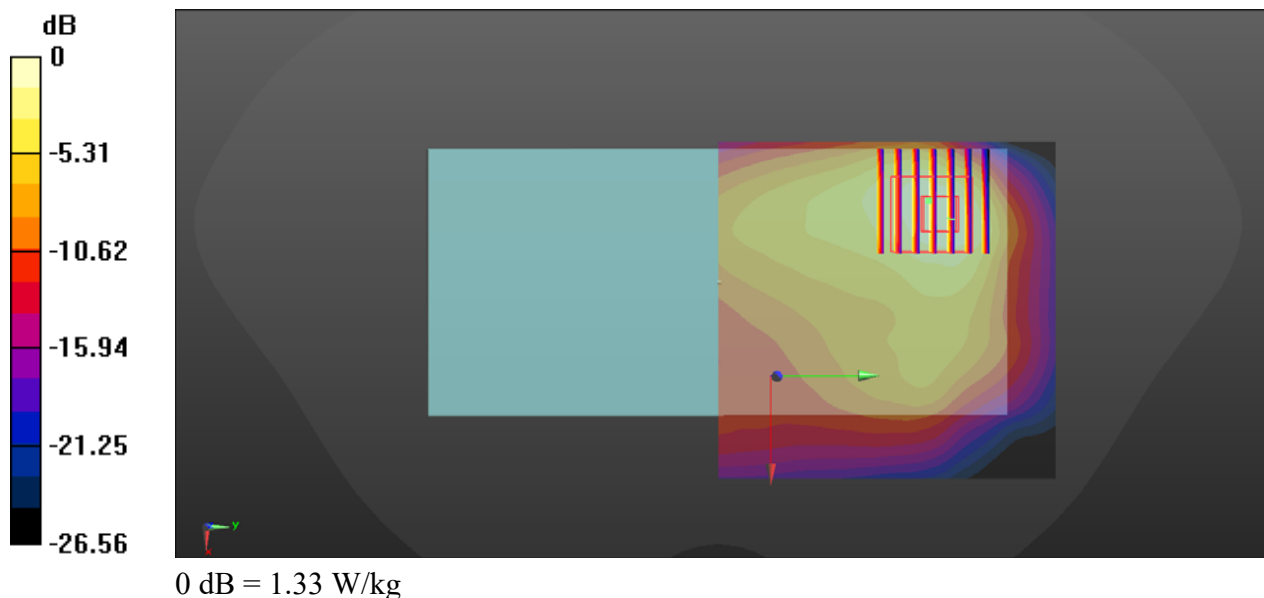
Ch6/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.817 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 1.83 W/kg

SAR(1 g) = 0.743 W/kg; SAR(10 g) = 0.349 W/kg

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



38_WLAN5GHz_802.11n-HT40 MCS0_Back_5mm_Ch54

Communication System: UID 0, WIFI (0); Frequency: 5270 MHz; Duty Cycle: 1:1.038
Medium: HSL_5250_201118 Medium parameters used: $f = 5270$ MHz; $\sigma = 4.519$ S/m; $\epsilon_r = 36.223$;
 $\rho = 1000$ kg/m³
Ambient Temperature : 23.3 °C; Liquid Temperature : 22.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(5.4, 5.4, 5.4); Calibrated: 2020.09.30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020.07.27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch54/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.63 W/kg

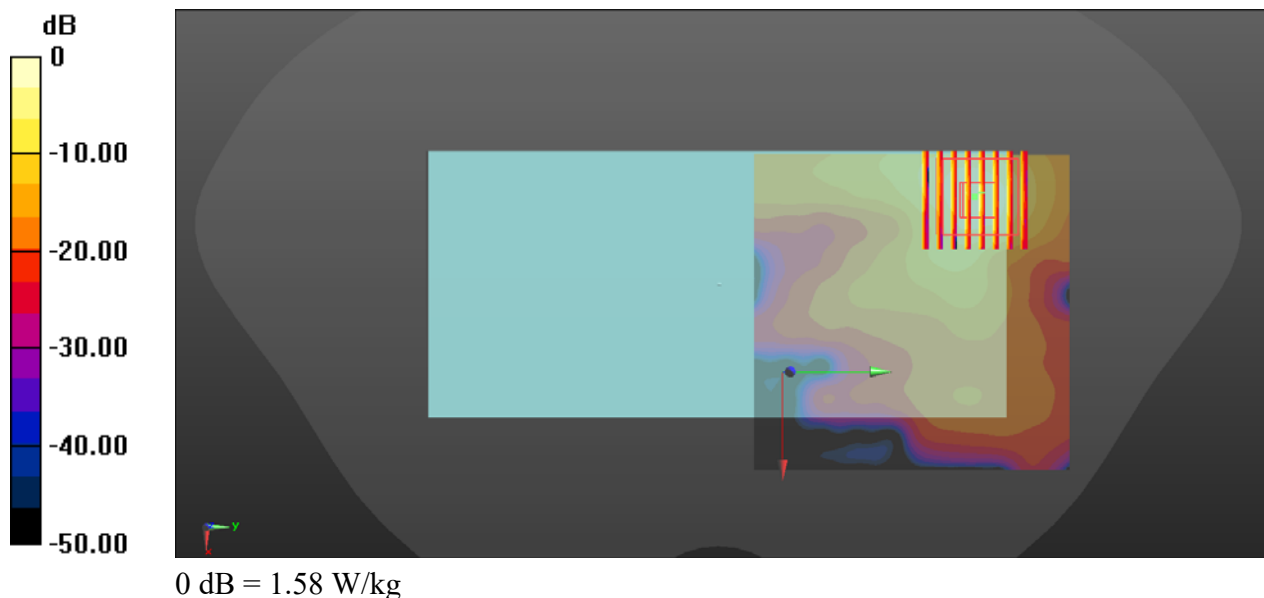
Ch54/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 2.438 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 2.63 W/kg

SAR(1 g) = 0.669 W/kg; SAR(10 g) = 0.203 W/kg

Maximum value of SAR (measured) = 1.58 W/kg



39_WLAN5GHz_802.11ac-VHT80 MCS0_Back_5mm_Ch122

Communication System: UID 0, WIFI (0); Frequency: 5610 MHz; Duty Cycle: 1:1.078
Medium: HSL_5600_201119 Medium parameters used: $f = 5610$ MHz; $\sigma = 5.189$ S/m; $\epsilon_r = 35.839$;
 $\rho = 1000$ kg/m³
Ambient Temperature : 23.4 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(4.79, 4.79, 4.79); Calibrated: 2020.09.30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020.07.27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch122/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

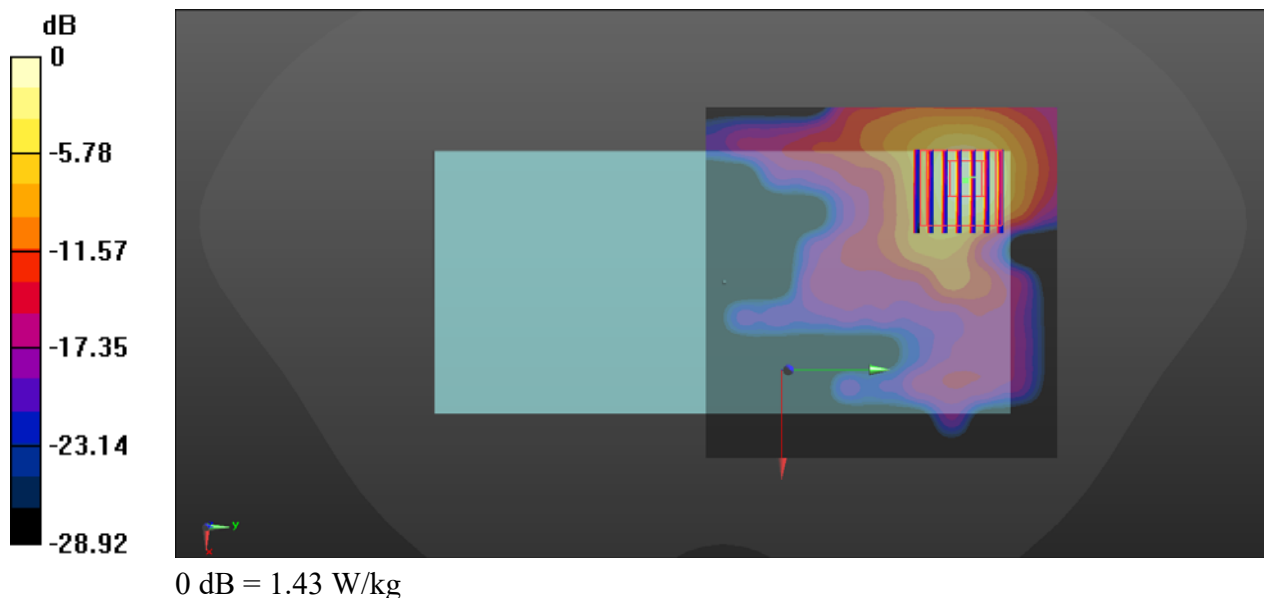
Ch122/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 1.092 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 2.42 W/kg

SAR(1 g) = 0.586 W/kg; SAR(10 g) = 0.182 W/kg

Maximum value of SAR (measured) = 1.43 W/kg



40_WLAN5GHz_802.11ac-VHT80 MCS0_Back_5mm_Ch155

Communication System: UID 0, WIFI (0); Frequency: 5775 MHz; Duty Cycle: 1:1.078

Medium: HSL_5750_201120 Medium parameters used: $f = 5775$ MHz; $\sigma = 5.034$ S/m; $\epsilon_r = 35.54$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(5.02, 5.02, 5.02); Calibrated: 2020.09.30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020.07.27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch155/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.08 W/kg

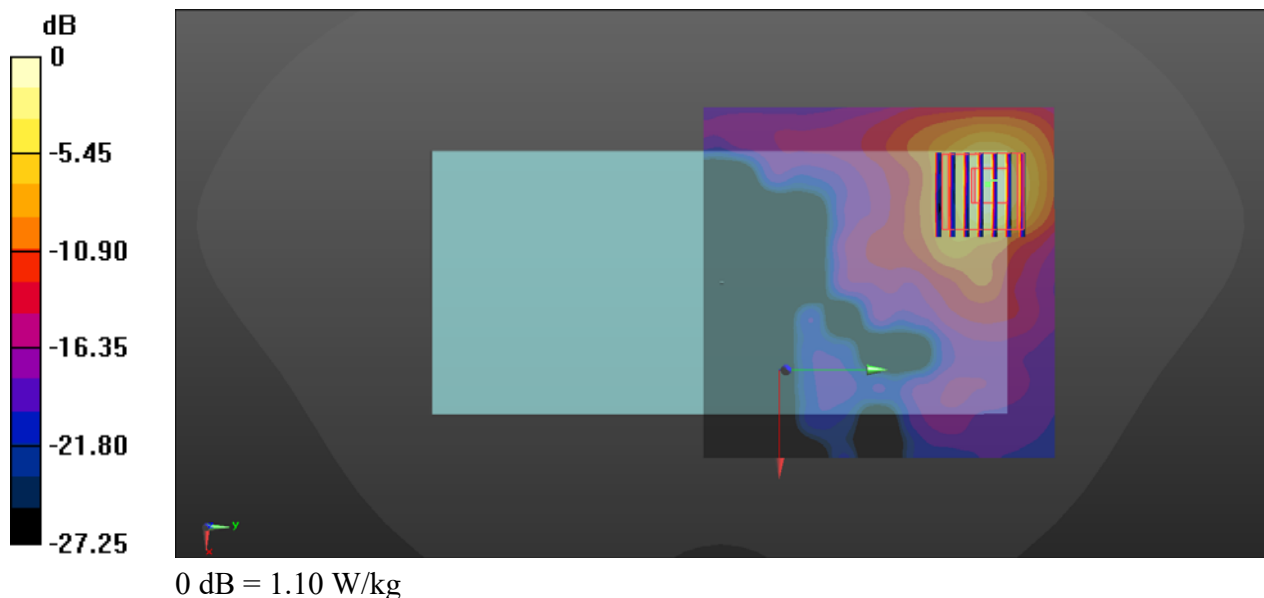
Ch155/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 0.5530 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 1.87 W/kg

SAR(1 g) = 0.436 W/kg; SAR(10 g) = 0.131 W/kg

Maximum value of SAR (measured) = 1.10 W/kg



41_Bluetooth_DH5 1Mbps_Back_5mm_Ch39

Communication System: UID 0, Bluetooth (0); Frequency: 2441 MHz; Duty Cycle: 1:1.293

Medium: HSL_2450_201116 Medium parameters used: $f = 2441$ MHz; $\sigma = 1.719$ S/m; $\epsilon_r = 40.81$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(7.95, 7.95, 7.95); Calibrated: 2020.09.30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020.07.27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch39/Area Scan (81x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

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

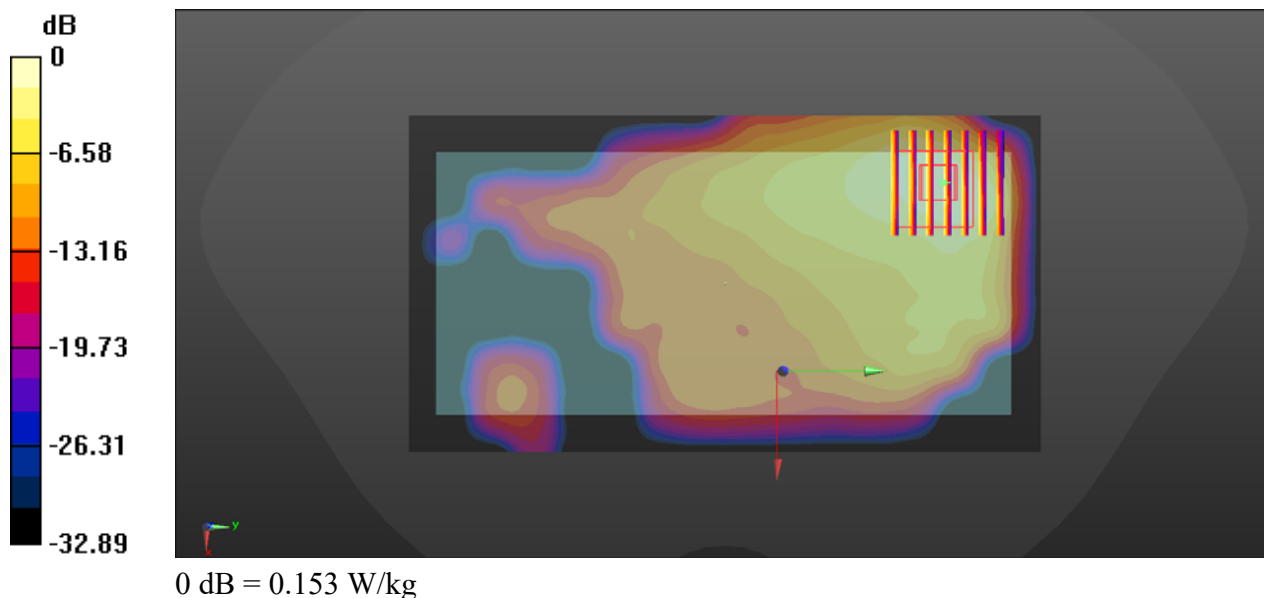
Ch39/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.594 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.209 W/kg

SAR(1 g) = 0.083 W/kg; SAR(10 g) = 0.038 W/kg

Maximum value of SAR (measured) = 0.153 W/kg



42_GSM850_GPRS(2 Tx slots)_Back_0mm_Ch251

Communication System: UID 0, GPRS/EDGE10 (0); Frequency: 848.8 MHz; Duty Cycle: 1:4.15
Medium: HSL_835_201114 Medium parameters used: $f = 849$ MHz; $\sigma = 0.896$ S/m; $\epsilon_r = 41.11$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C; Liquid Temperature : 22.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(9.54, 9.54, 9.54); Calibrated: 2020.09.30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020.07.27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch251/Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 4.88 W/kg

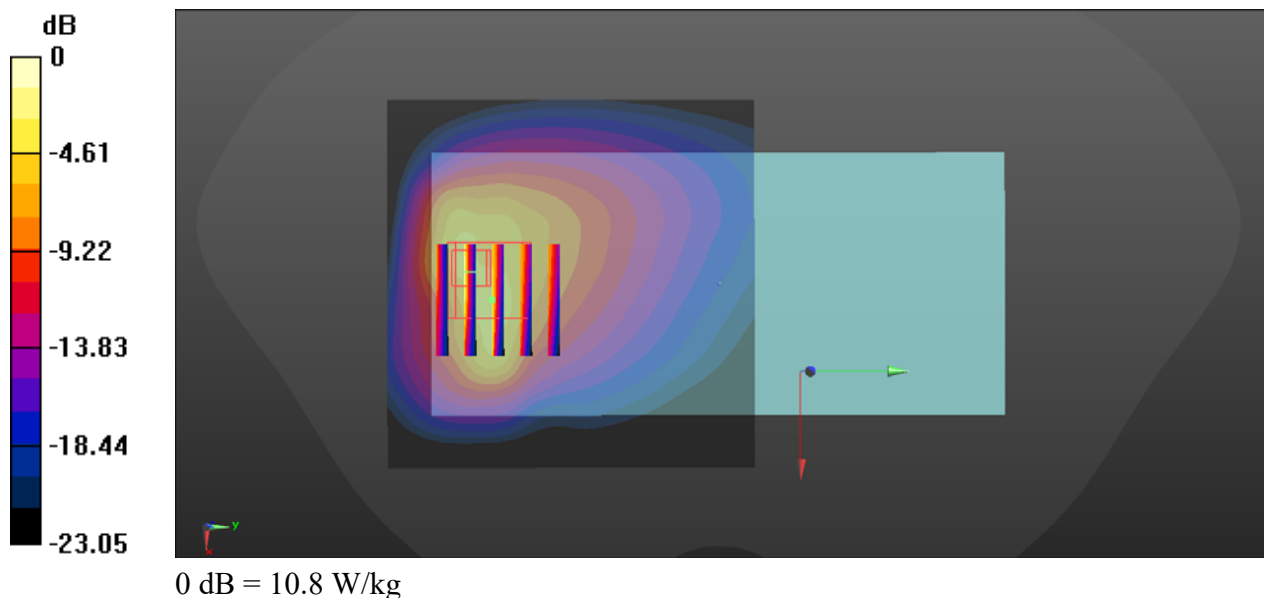
Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.91 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 15.6 W/kg

SAR(1 g) = 4.47 W/kg; SAR(10 g) = 1.9 W/kg

Maximum value of SAR (measured) = 10.8 W/kg



43_GSM1900_GPRS(2 Tx slots)_Bottom Side_0mm_Ch512

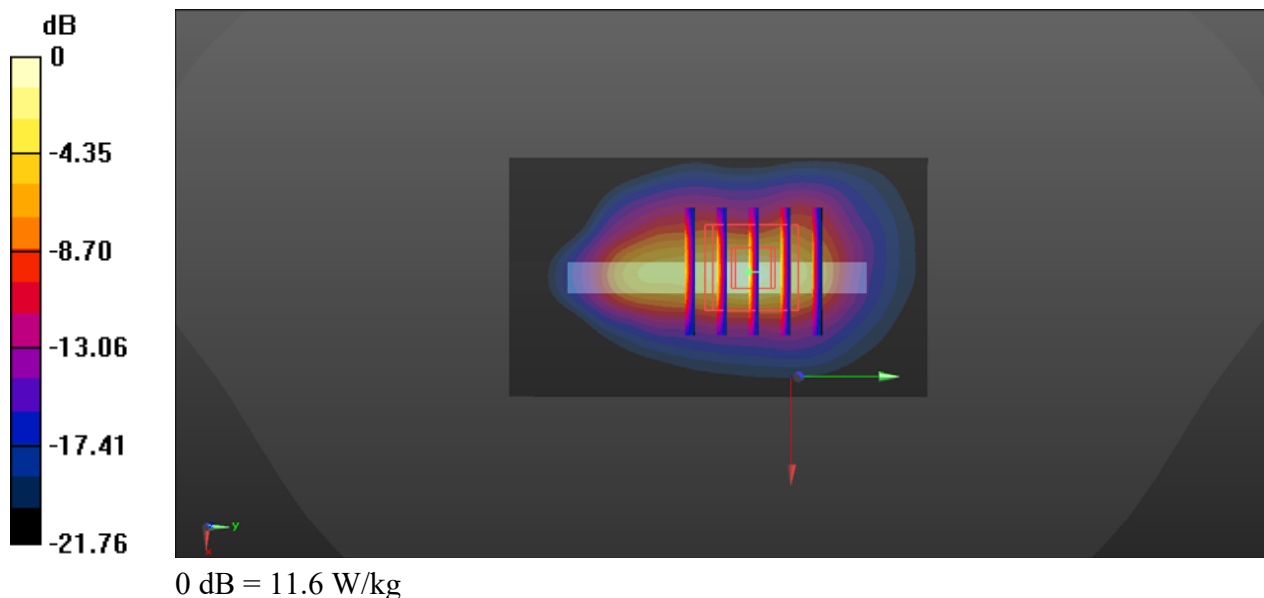
Communication System: UID 0, GPRS/EDGE10 (0); Frequency: 1850.2 MHz; Duty Cycle: 1:4.15
Medium: HSL_1900_201115 Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.357$ S/m; $\epsilon_r = 39.509$; $\rho = 1000$ kg/m³
Ambient Temperature : 23.6 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(8.34, 8.34, 8.34); Calibrated: 2020.09.30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020.07.27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch512/Area Scan (41x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 9.81 W/kg

Ch512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 74.67 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 14.2 W/kg
SAR(1 g) = 5.18 W/kg; SAR(10 g) = 2.13 W/kg
Maximum value of SAR (measured) = 11.6 W/kg



44_WCDMA V_RMC 12.2Kbps_Back_0mm_Ch4233

Communication System: UID 0, UMTS (0); Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium: HSL_835_201114 Medium parameters used: $f = 847$ MHz; $\sigma = 0.894$ S/m; $\epsilon_r = 41.133$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C; Liquid Temperature : 22.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(9.54, 9.54, 9.54); Calibrated: 2020.09.30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020.07.27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch4233/Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 10.1 W/kg

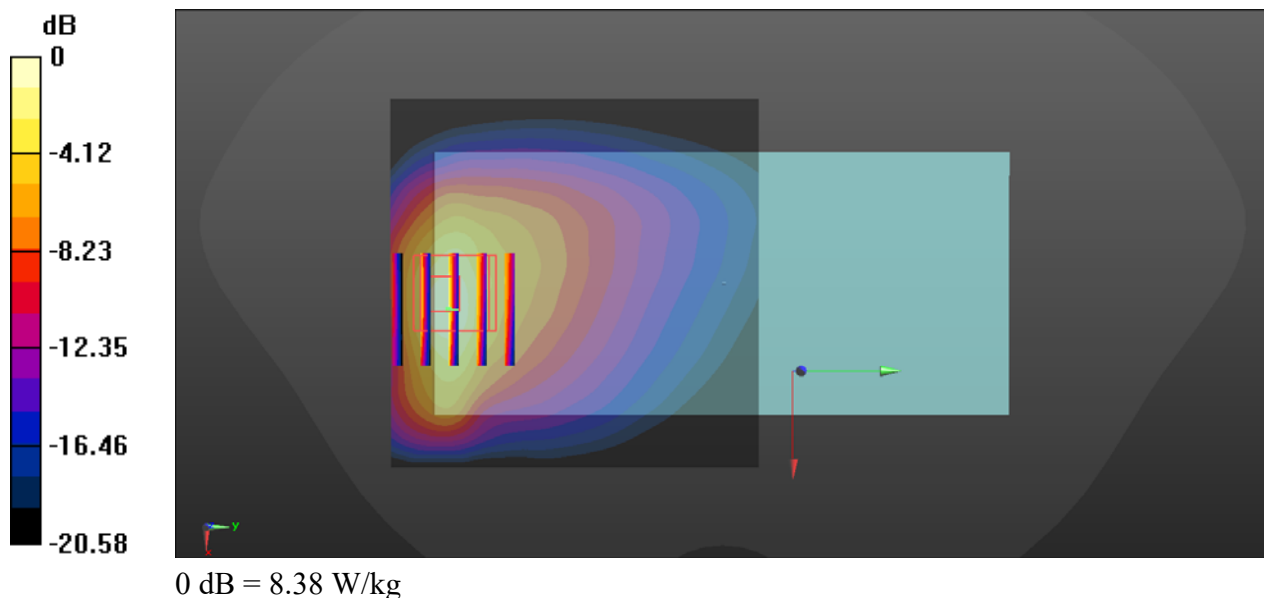
Ch4233/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.62 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 15.3 W/kg

SAR(1 g) = 4.9 W/kg; SAR(10 g) = 2.19 W/kg

Maximum value of SAR (measured) = 8.38 W/kg



45_WCDMA II_RMC 12.2Kbps_Bottom Side_0mm_Ch9262

Communication System: UID 0, UMTS (0); Frequency: 1852.4 MHz; Duty Cycle: 1:1
Medium: HSL_1900_201115 Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.359$ S/m; $\epsilon_r = 39.501$; $\rho = 1000$ kg/m³
Ambient Temperature : 23.6 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(8.34, 8.34, 8.34); Calibrated: 2020.09.30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020.07.27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

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

Maximum value of SAR (interpolated) = 8.78 W/kg

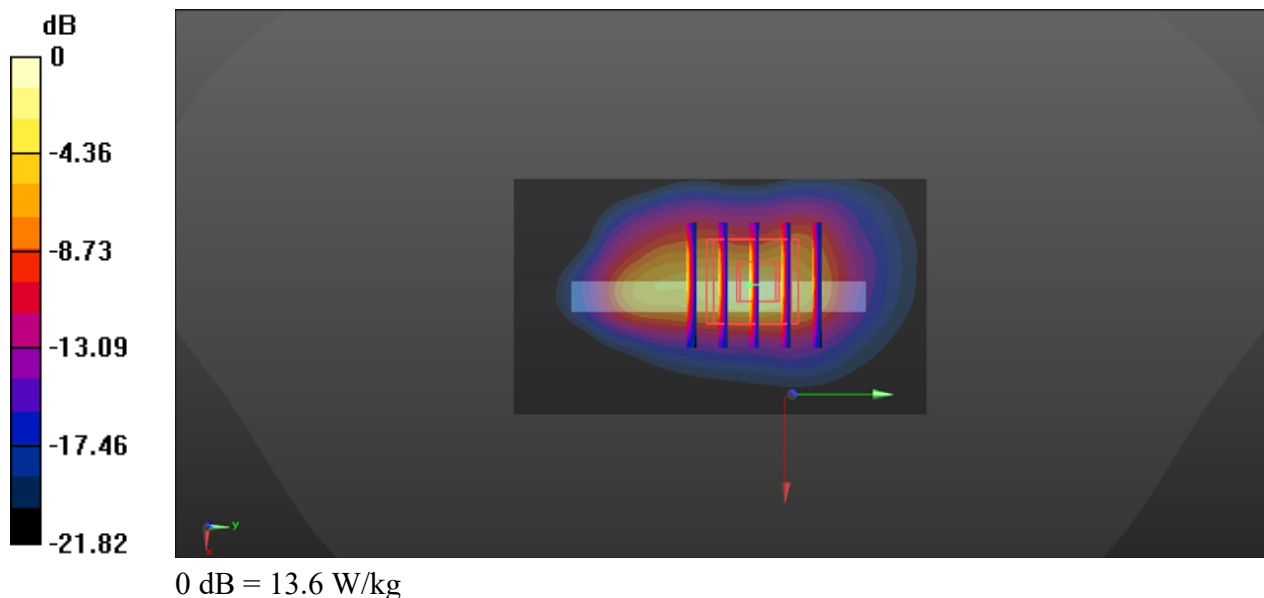
Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 72.42 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 16.8 W/kg

SAR(1 g) = 6.18 W/kg; SAR(10 g) = 2.49 W/kg

Maximum value of SAR (measured) = 13.6 W/kg



46_LTE Band 26_15M_QPSK_1RB_37Offset_Back_0mm_Ch26965

Communication System: UID 0, LTE (0); Frequency: 841.5 MHz; Duty Cycle: 1:1
Medium: HSL_835_201114 Medium parameters used: $f = 841.5$ MHz; $\sigma = 0.889$ S/m; $\epsilon_r = 41.202$;
 $\rho = 1000$ kg/m³
Ambient Temperature : 23.4 °C; Liquid Temperature : 22.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(9.54, 9.54, 9.54); Calibrated: 2020.09.30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020.07.27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch26965/Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 9.62 W/kg

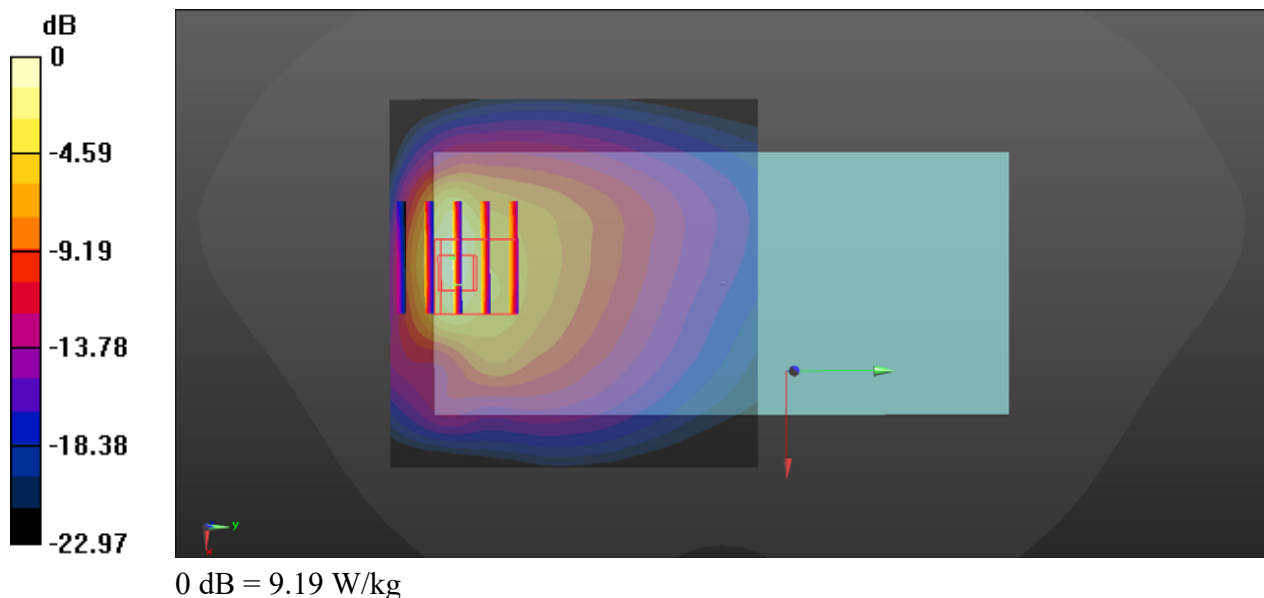
Ch26965/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.38 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 12.9 W/kg

SAR(1 g) = 4.4 W/kg; SAR(10 g) = 2.05 W/kg

Maximum value of SAR (measured) = 9.19 W/kg



47_LTE Band 2_20M_QPSK_50RB_0Offset_Bottom Side_0mm_Ch18700

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

Medium: HSL_1900_201115 Medium parameters used: $f = 1860$ MHz; $\sigma = 1.366$ S/m; $\epsilon_r = 39.475$;

$\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(8.34, 8.34, 8.34); Calibrated: 2020.09.30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020.07.27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

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

Maximum value of SAR (interpolated) = 14.5 W/kg

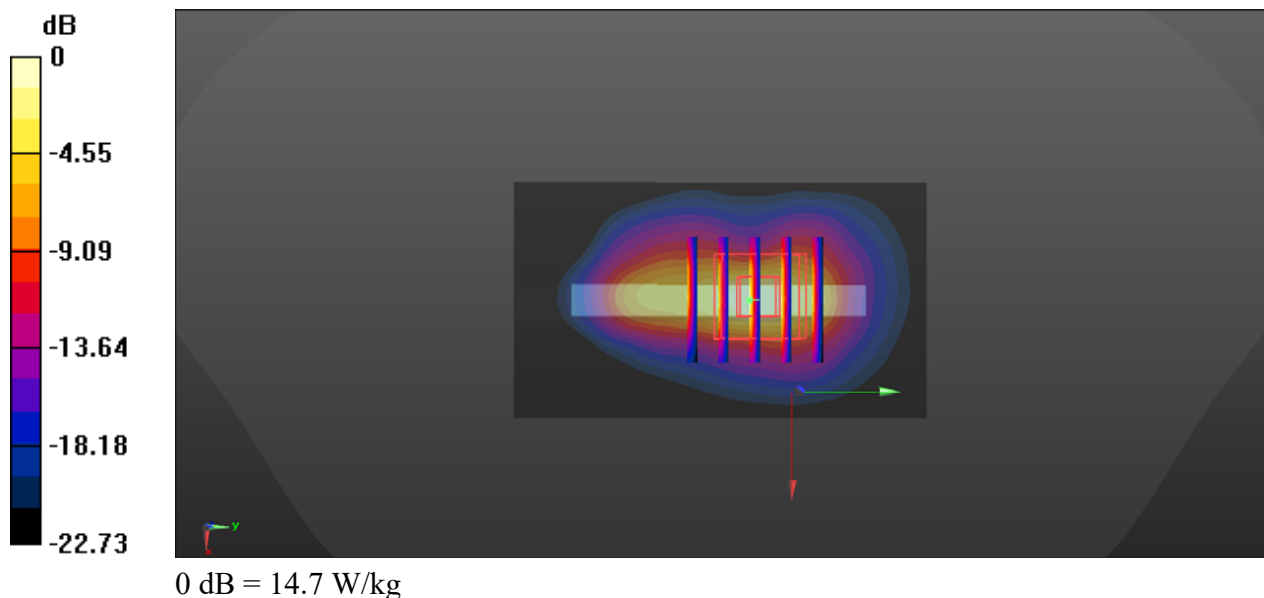
Ch18700/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.082 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 18.3 W/kg

SAR(1 g) = 6.27 W/kg; SAR(10 g) = 2.45 W/kg

Maximum value of SAR (measured) = 14.7 W/kg



48_LTE Band 7_20M_QPSK_1RB_49Offset_Back_0mm_Ch20850

Communication System: UID 0, LTE (0); Frequency: 2510 MHz; Duty Cycle: 1:1
Medium: HSL_2600_201117 Medium parameters used: $f = 2510$ MHz; $\sigma = 1.823$ S/m; $\epsilon_r = 40.148$;
 $\rho = 1000$ kg/m³
Ambient Temperature : 23.6 °C; Liquid Temperature : 22.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(7.66, 7.66, 7.66); Calibrated: 2020.09.30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020.07.27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch20850/Area Scan (81x51x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 15.5 W/kg

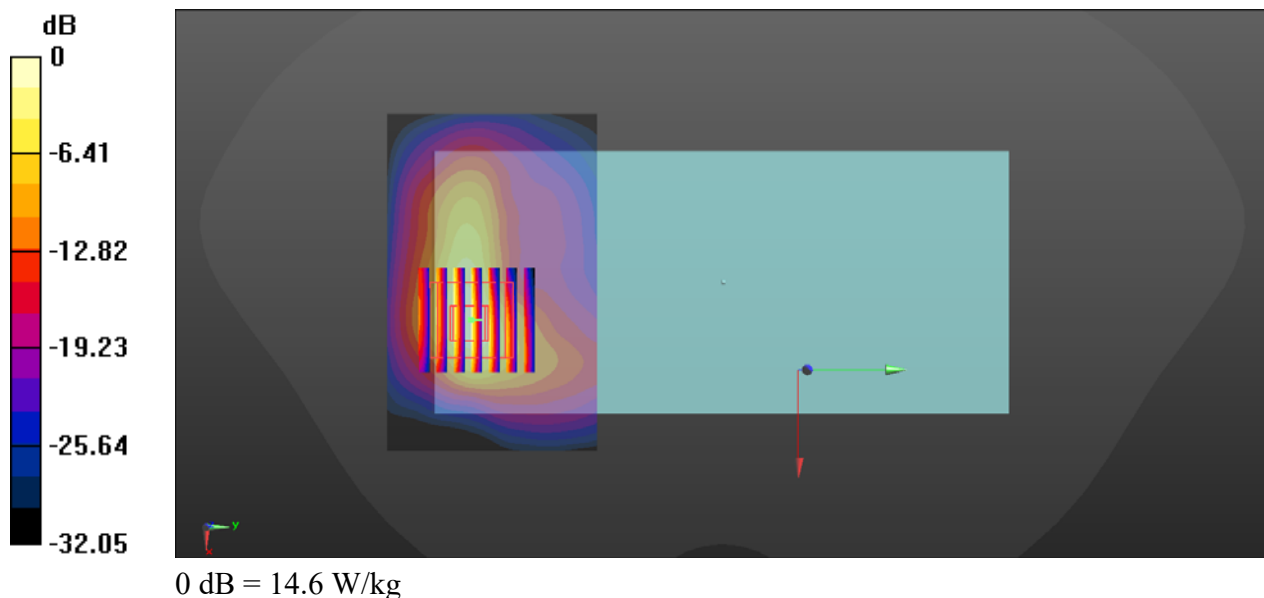
Ch20850/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.865 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 20.8 W/kg

SAR(1 g) = 7.1 W/kg; SAR(10 g) = 2.4 W/kg

Maximum value of SAR (measured) = 14.6 W/kg



49_LTE Band 41_20M_QPSK_1RB_49Offset_Back_0mm_Ch39750

Communication System: UID 0, LTE (0); Frequency: 2506 MHz; Duty Cycle: 1:1.59

Medium: HSL_2600_201117 Medium parameters used: $f = 2506$ MHz; $\sigma = 1.818$ S/m; $\epsilon_r = 40.162$;
 $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(7.66, 7.66, 7.66); Calibrated: 2020.09.30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020.07.27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch39750/Area Scan (81x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 11.7 W/kg

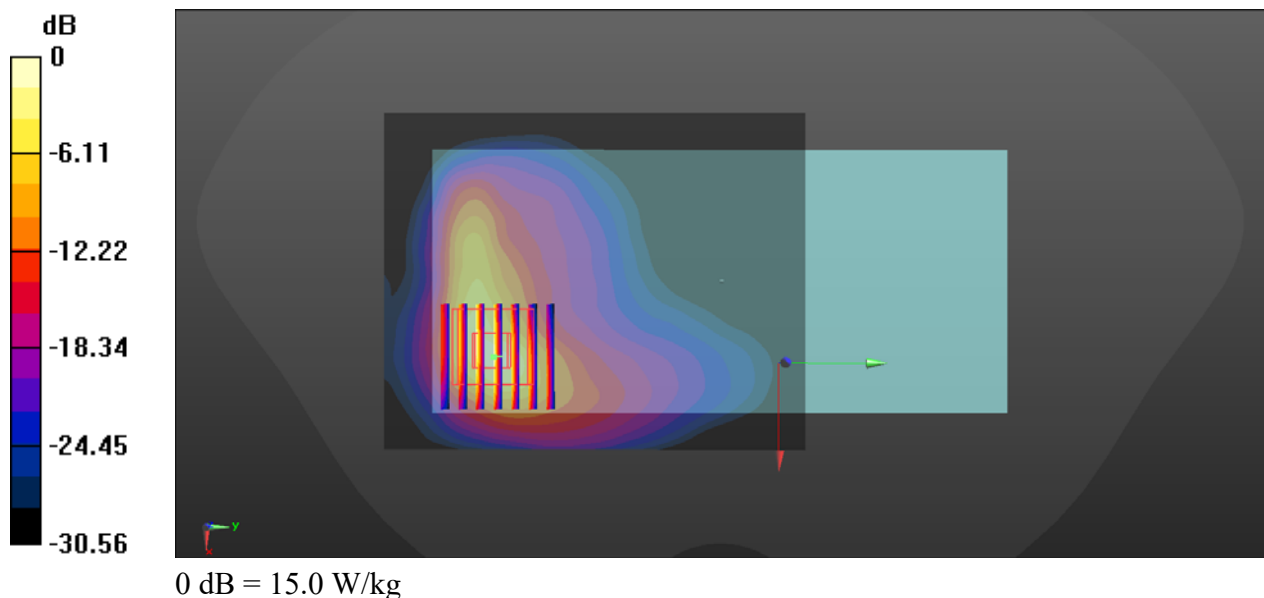
Ch39750/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.826 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 20.1 W/kg

SAR(1 g) = 7.27 W/kg; SAR(10 g) = 2.51 W/kg

Maximum value of SAR (measured) = 15.0 W/kg



50_WLAN5GHz_802.11n-HT40 MCS0_Top Side_0mm_Ch54

Communication System: UID 0, WIFI (0); Frequency: 5270 MHz; Duty Cycle: 1:1.038
Medium: HSL_5250_201118 Medium parameters used: $f = 5270$ MHz; $\sigma = 4.519$ S/m; $\epsilon_r = 36.223$;
 $\rho = 1000$ kg/m³
Ambient Temperature : 23.3 °C; Liquid Temperature : 22.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(5.4, 5.4, 5.4); Calibrated: 2020.09.30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020.07.27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch54/Area Scan (41x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 8.69 W/kg

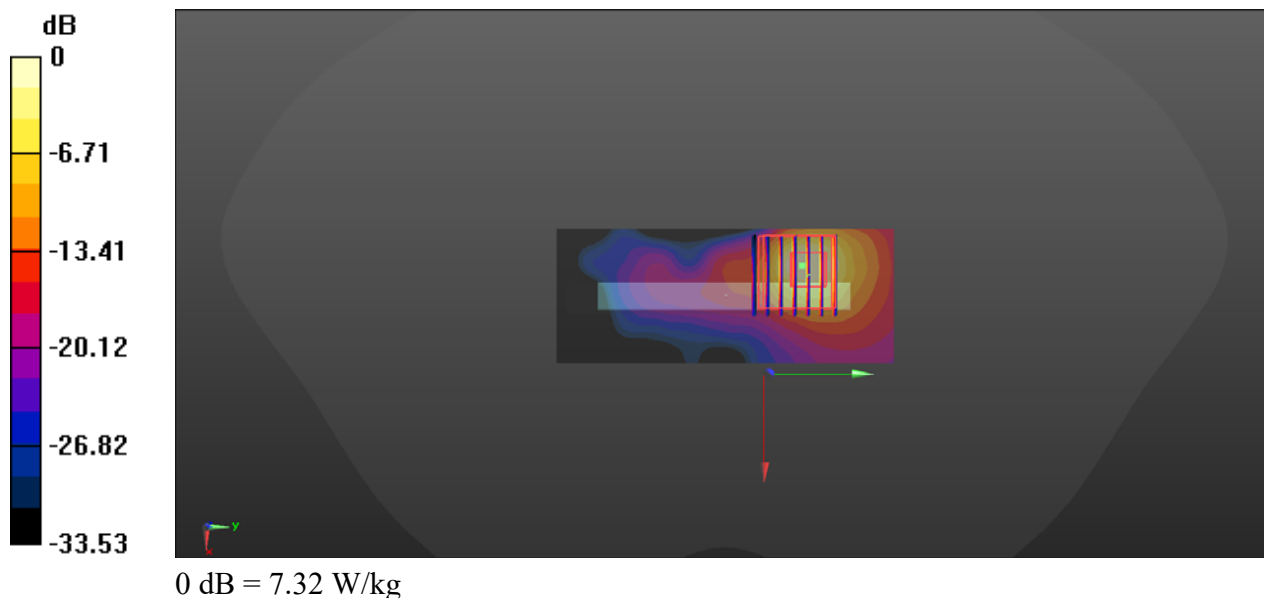
Ch54/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 6.604 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 15.6 W/kg

SAR(1 g) = 2.77 W/kg; SAR(10 g) = 0.628 W/kg

Maximum value of SAR (measured) = 7.32 W/kg



51_WLAN5GHz_802.11ac-VHT80 MCS0_Top Side_0mm_Ch122

Communication System: UID 0, WIFI (0); Frequency: 5610 MHz; Duty Cycle: 1:1.078
Medium: HSL_5600_201119 Medium parameters used: $f = 5610$ MHz; $\sigma = 4.997$ S/m; $\epsilon_r = 36.103$;
 $\rho = 1000$ kg/m³
Ambient Temperature : 23.4 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(4.79, 4.79, 4.79); Calibrated: 2020.09.30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020.07.27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch122/Area Scan (51x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 16.5 W/kg

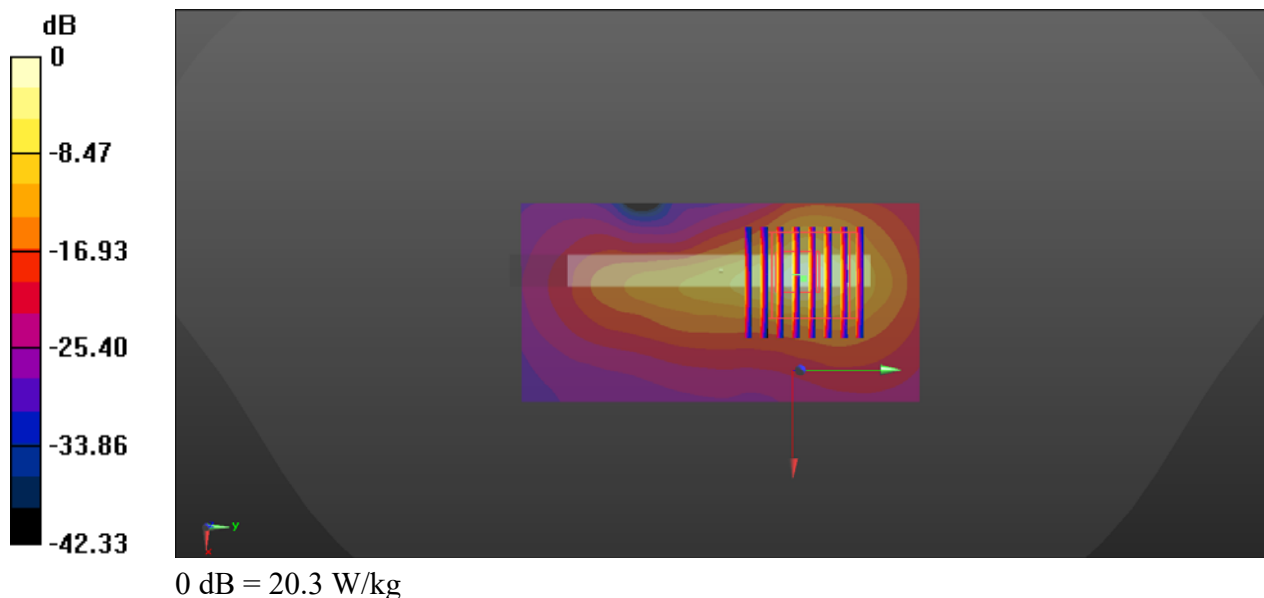
Ch122/Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 18.77 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 47.7 W/kg

SAR(1 g) = 6.03 W/kg; SAR(10 g) = 1.48 W/kg

Maximum value of SAR (measured) = 20.3 W/kg





Appendix C. DASYS Calibration Certificate

The DASYS calibration certificates are shown as follows.



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中国认可
国际互认
校准
CALIBRATION
CNAS L0570

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

Client **Sporton**

Certificate No: **Z18-60533**

CALIBRATION CERTIFICATE

Object **D835V2 - SN: 4d162**

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

Calibration date: **December 5, 2018**

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 NRVD	102196	07-Mar-18 (CTTL, No.J18X01510)	Mar-19
Power sensor NRV-Z5	100596	07-Mar-18 (CTTL, No.J18X01510)	Mar-19
Reference Probe EX3DV4	SN 7514	27-Aug-18(SPEAG,No.EX3-7514_Aug18)	Aug-19
DAE4	SN 1555	20-Aug-18(SPEAG,No.DAE4-1555_Aug18)	Aug-19
Secondary Standards	ID #	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration
Signal Generator E4438C	MY49071430	23-Jan-18 (CTTL, No.J18X00560)	Jan-19
NetworkAnalyzer E5071C	MY46110673	24-Jan-18 (CTTL, No.J18X00561)	Jan-19

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

Signature

Issued: December 8, 2018

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



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Glossary:

TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM _{x,y,z}
N/A	not applicable or not measured

Calibration is Performed According to the Following Standards:

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

Additional Documentation:

- DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

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

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



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Measurement Conditions

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

DASY Version	DASY52	52.10.2.1495
Extrapolation	Advanced Extrapolation	
Phantom	Triple Flat Phantom 5.1C	
Distance Dipole Center - TSL	15 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	835 MHz $\pm$ 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	41.5	0.90 mho/m
Measured Head TSL parameters	(22.0 $\pm$ 0.2) °C	42.7 $\pm$ 6 %	0.88 mho/m $\pm$ 6 %
Head TSL temperature change during test	<1.0 °C	----	----

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	2.35 mW / g
SAR for nominal Head TSL parameters	normalized to 1W	9.61 mW / g $\pm$ 18.8 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Head TSL	Condition	
SAR measured	250 mW input power	1.56 mW / g
SAR for nominal Head TSL parameters	normalized to 1W	6.35 mW / g $\pm$ 18.7 % (k=2)

Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	55.2	0.97 mho/m
Measured Body TSL parameters	(22.0 $\pm$ 0.2) °C	53.7 $\pm$ 6 %	0.99 mho/m $\pm$ 6 %
Body TSL temperature change during test	<1.0 °C	----	----

SAR result with Body TSL

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	2.47 mW / g
SAR for nominal Body TSL parameters	normalized to 1W	9.70 mW / g $\pm$ 18.8 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Body TSL	Condition	
SAR measured	250 mW input power	1.64 mW / g
SAR for nominal Body TSL parameters	normalized to 1W	6.47 mW / g $\pm$ 18.7 % (k=2)



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Appendix (Additional assessments outside the scope of CNAS L0570)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	52.6 Ω - 2.56j Ω
Return Loss	- 28.9dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	47.2 Ω - 6.92j Ω
Return Loss	- 22.3dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.306 ns
----------------------------------	----------

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint 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 feedpoint may be damaged.

Additional EUT Data

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DASY5 Validation Report for Head TSL

Date: 12.04.2018

Test Laboratory: CTTL, Beijing, China

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN: 4d162

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 835$ MHz; $\sigma = 0.881$ S/m; $\epsilon_r = 42.71$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7514; ConvF(9.09, 9.09, 9.09) @ 835 MHz; Calibrated: 8/27/2018
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1555; Calibrated: 8/20/2018
- Phantom: MFP_V5.1C ; Type: QD 000 P51CA; Serial: 1062
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

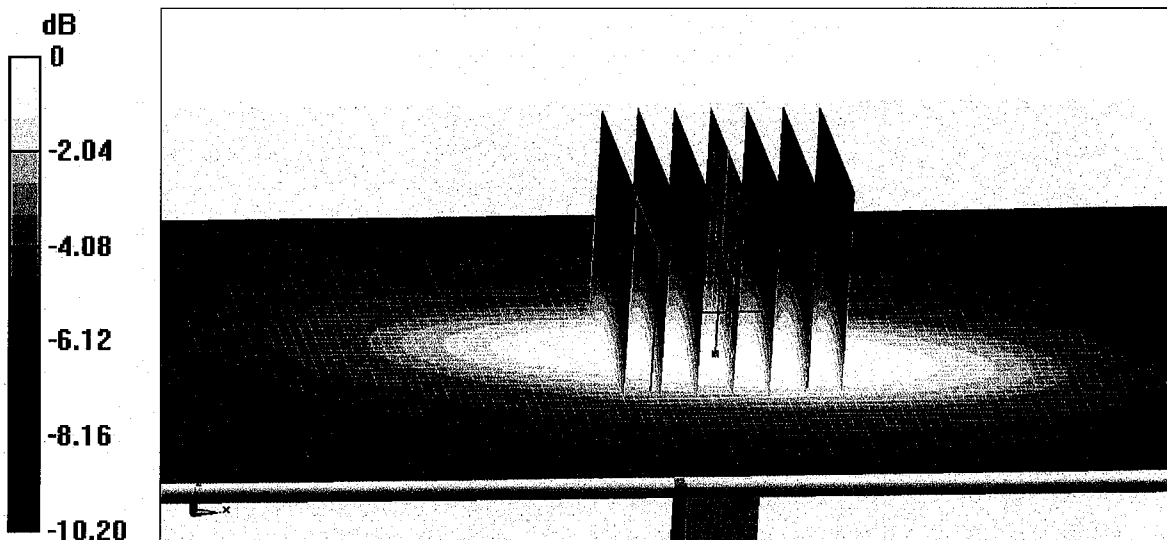
Dipole Calibration/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 57.75 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 3.50 W/kg

SAR(1 g) = 2.35 W/kg; SAR(10 g) = 1.56 W/kg

Maximum value of SAR (measured) = 3.11 W/kg



0 dB = 3.11 W/kg = 4.93 dBW/kg



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Impedance Measurement Plot for Head TSL

