

45_FR1 n78 Part27Q_100M_QPSK_135RB_69Offset_Left Side_5mm_Ch633334

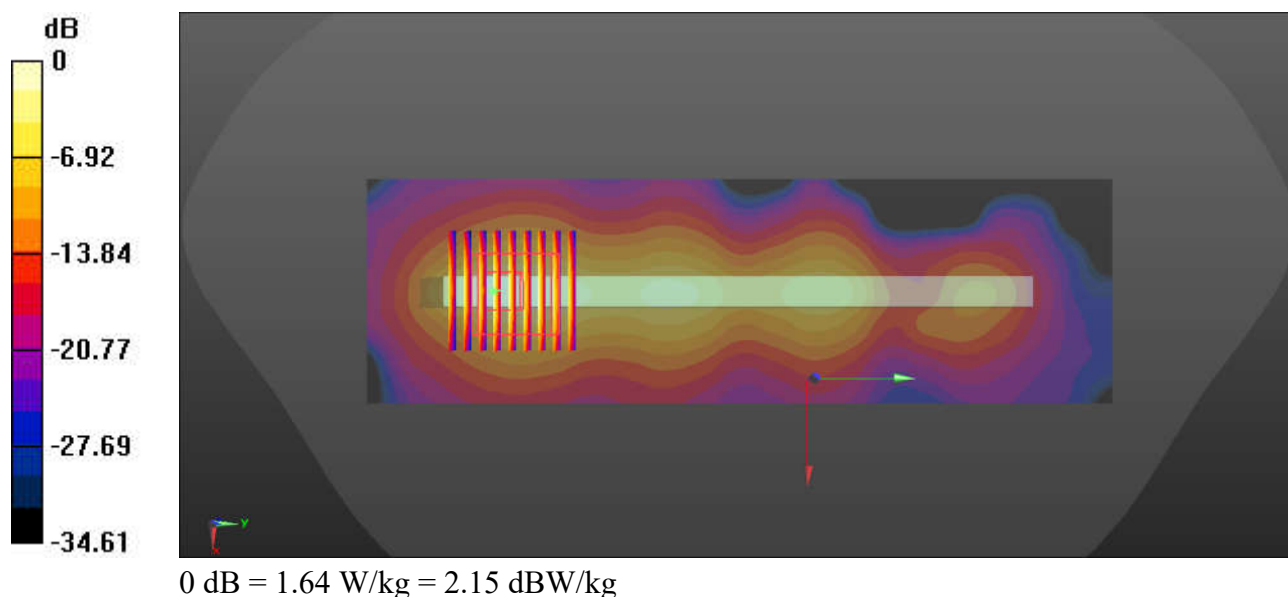
Communication System: UID 0, 5G NR (0); Frequency: 3500.01 MHz; Duty Cycle: 1:1
Medium: HSL_3500 Medium parameters used: $f = 3500.01$ MHz; $\sigma = 2.784$ S/m; $\epsilon_r = 38.912$; $\rho = 1000$ kg/m³
Ambient Temperature : 23.3 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(6.69, 6.69, 6.69); Calibrated: 2021/6/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1650; Calibrated: 2021/6/9
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (61x201x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm
Maximum value of SAR (interpolated) = 1.66 W/kg

Zoom Scan (9x9x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm
Reference Value = 1.566 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 2.33 W/kg
SAR(1 g) = 0.790 W/kg; SAR(10 g) = 0.290 W/kg
Maximum value of SAR (measured) = 1.64 W/kg



46_WLAN2.4GHz_802.11b 1Mbps_Back_5mm_Ch1

Communication System: UID 0, WLAN2.4GHz (0); Frequency: 2412 MHz; Duty Cycle: 1:1

Medium: HSL_2450 Medium parameters used: $f = 2412$ MHz; $\sigma = 1.787$ S/m; $\epsilon_r = 38.675$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.1 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(7.53, 7.53, 7.53); Calibrated: 2021/6/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1650; Calibrated: 2021/6/9
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (101x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

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

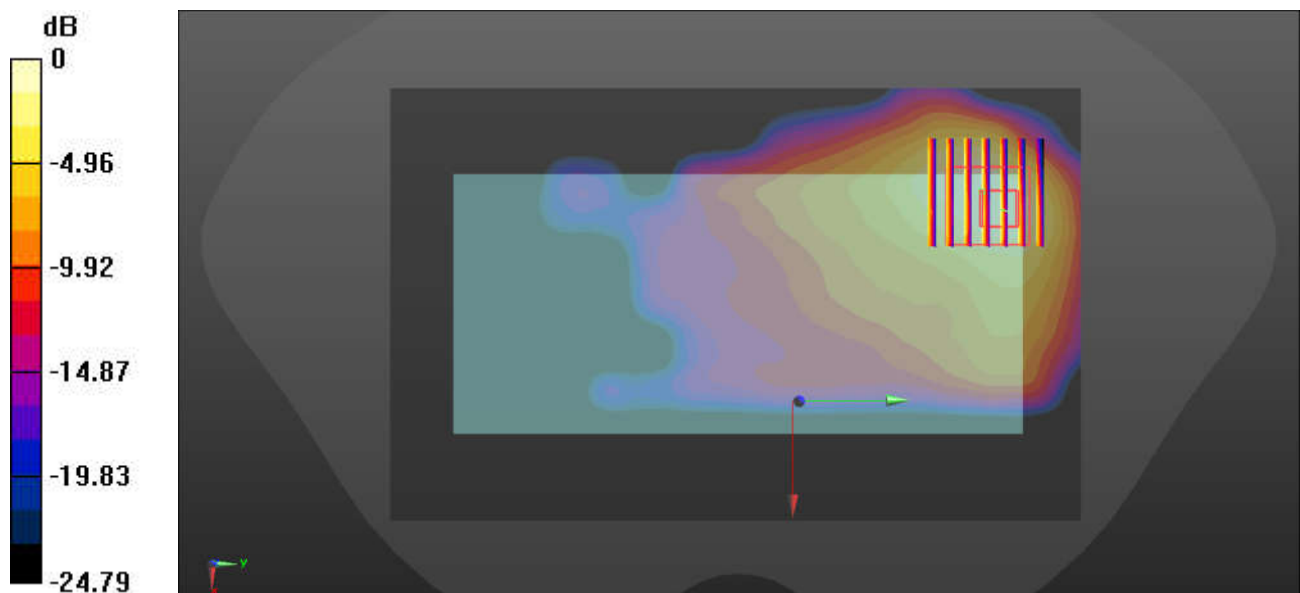
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.314 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.344 W/kg

SAR(1 g) = 0.148 W/kg; SAR(10 g) = 0.075 W/kg

Maximum value of SAR (measured) = 0.307 W/kg



0 dB = 0.307 W/kg = -5.13 dBW/kg

47_Bluetooth_1Mbps_Back_5mm_Ch39

Communication System: UID 0, Bluetooth (0); Frequency: 2441 MHz; Duty Cycle: 1:1.302
Medium: HSL_2450 Medium parameters used: $f = 2441$ MHz; $\sigma = 1.8$ S/m; $\epsilon_r = 38.644$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.1 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(7.53, 7.53, 7.53); Calibrated: 2021/6/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1650; Calibrated: 2021/6/9
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (101x171x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm
Maximum value of SAR (interpolated) = 0.125 W/kg

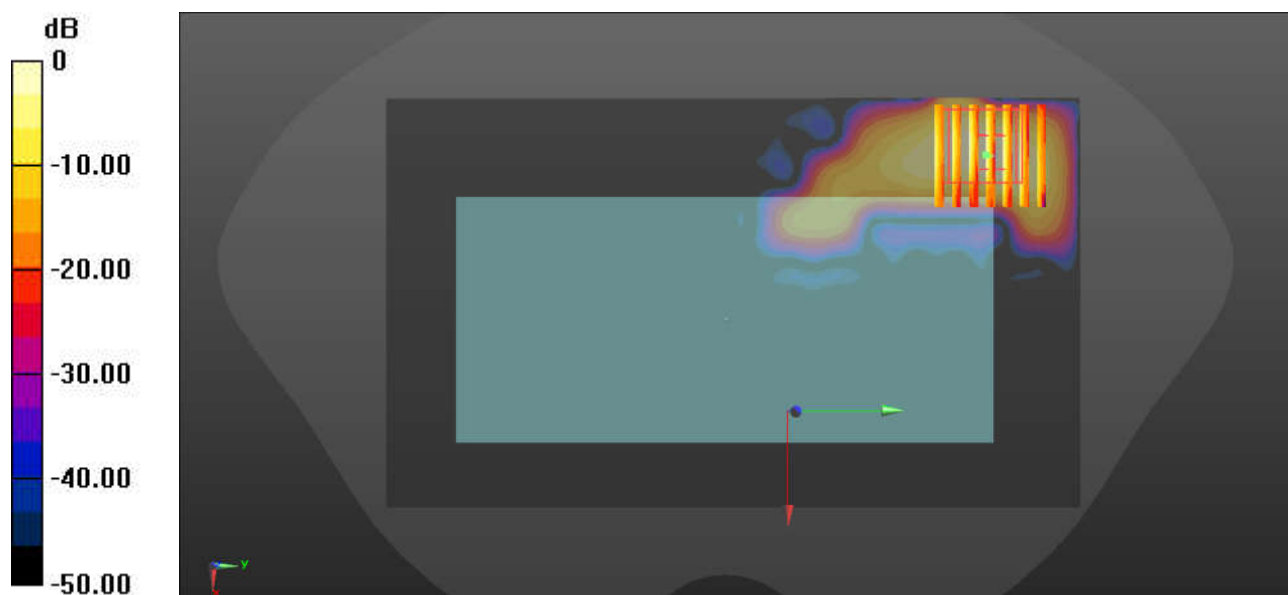
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

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

Peak SAR (extrapolated) = 0.123 W/kg

SAR(1 g) = 0.050 W/kg; SAR(10 g) = 0.017 W/kg

Maximum value of SAR (measured) = 0.0919 W/kg



0 dB = 0.0919 W/kg = -10.37 dBW/kg

48_WLAN5GHz_802.11ac-VHT80 MCS0_Right Side_5mm_Ch42

Communication System: UID 0, WLAN5GHz (0); Frequency: 5210 MHz; Duty Cycle: 1:1.159

Medium: HSL_5000 Medium parameters used: $f = 5210$ MHz; $\sigma = 4.495$ S/m; $\epsilon_r = 36.213$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(5.38, 5.38, 5.38); Calibrated: 2021/6/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1650; Calibrated: 2021/6/9
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (51x201x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 1.07 W/kg

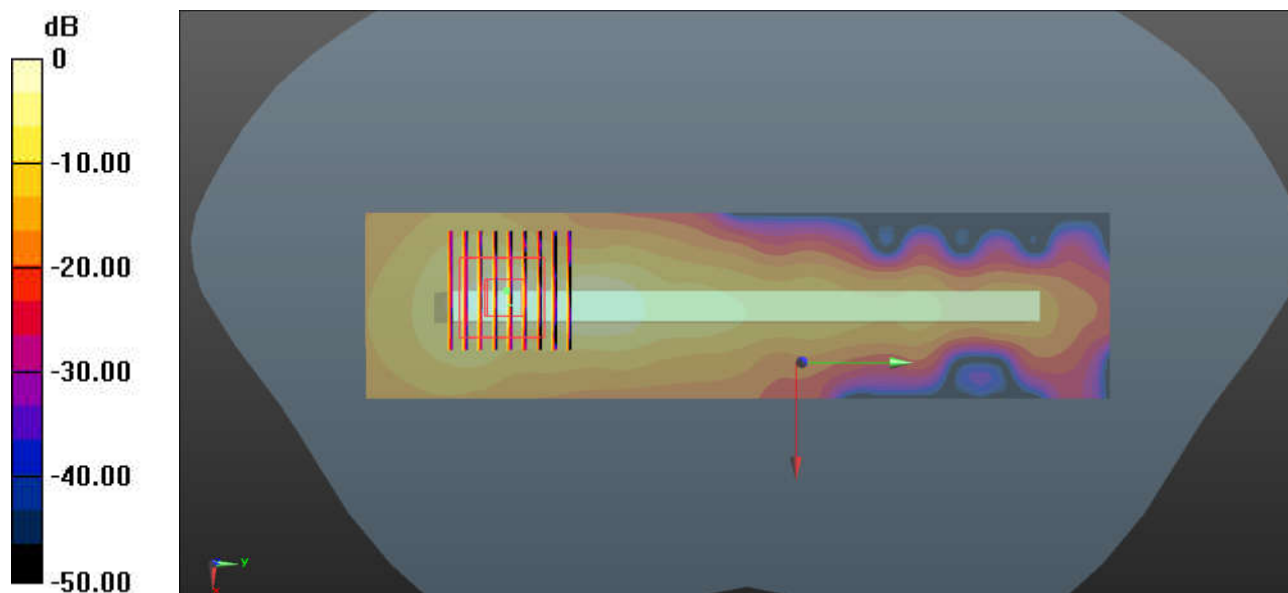
Zoom Scan (9x9x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 2.205 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.867 W/kg

SAR(1 g) = 0.218 W/kg; SAR(10 g) = 0.089 W/kg

Maximum value of SAR (measured) = 0.542 W/kg



0 dB = 0.542 W/kg = -2.66 dBW/kg

49_WLAN5GHz_802.11ac-VHT80 MCS0_Top Side_5mm_Ch155

Communication System: UID 0, WLAN5GHz (0); Frequency: 5775 MHz; Duty Cycle: 1:1.159

Medium: HSL_5000 Medium parameters used: $f = 5775$ MHz; $\sigma = 5.111$ S/m; $\epsilon_r = 35.373$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(4.82, 4.82, 4.82); Calibrated: 2021/6/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1650; Calibrated: 2021/6/9
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (61x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.16 W/kg

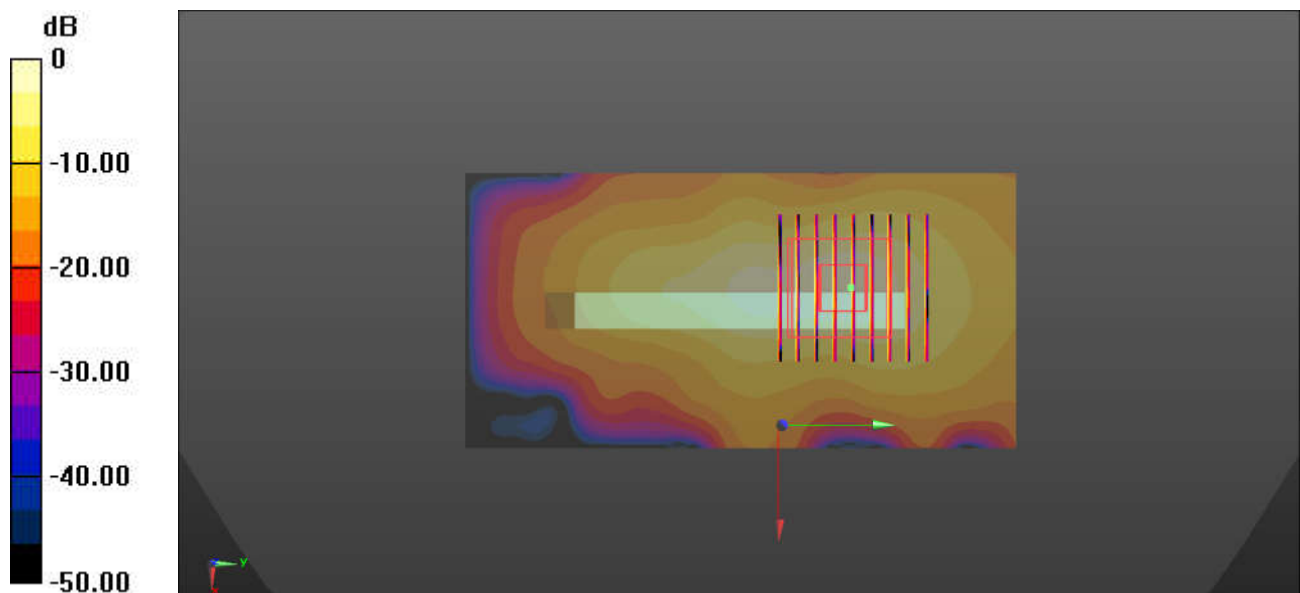
Zoom Scan (9x9x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 4.198 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.852 W/kg

SAR(1 g) = 0.181 W/kg; SAR(10 g) = 0.056 W/kg

Maximum value of SAR (measured) = 0.456 W/kg



0 dB = 0.456 W/kg = -3.41 dBW/kg

50_LTE Band 12_10M_QPSK_1RB_0Offset_Back_5mm_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; $\sigma = 0.886$ S/m; $\epsilon_r = 41.268$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.9 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(10.25, 10.25, 10.25); Calibrated: 2021/6/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2021/9/21
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (81x131x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 1.06 W/kg

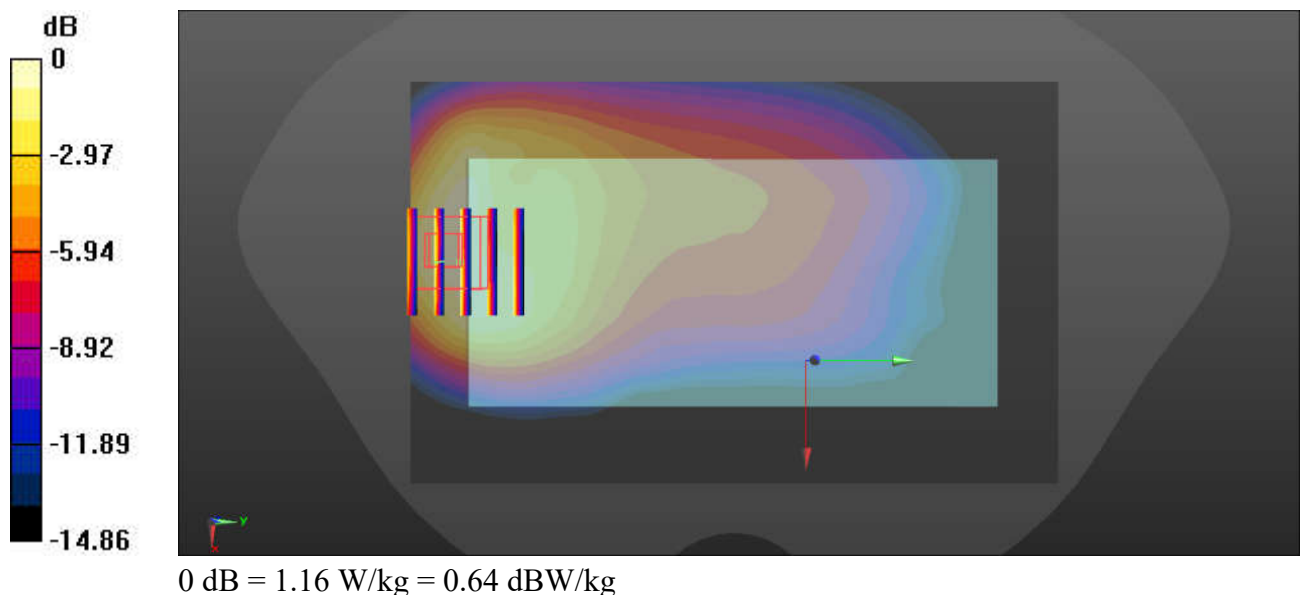
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 18.06 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.54 W/kg

SAR(1 g) = 0.786 W/kg; SAR(10 g) = 0.424 W/kg

Maximum value of SAR (measured) = 1.16 W/kg



51_LTE Band 13_10M_QPSK_1RB_0Offset_Back_5mm_Ch23230

Communication System: UID 0, LTE-FDD (0); Frequency: 782 MHz; Duty Cycle: 1:1
Medium: HSL_750 Medium parameters used: $f = 782$ MHz; $\sigma = 0.911$ S/m; $\epsilon_r = 41.09$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.9 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(10.25, 10.25, 10.25); Calibrated: 2021/6/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2021/9/21
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (81x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.874 W/kg

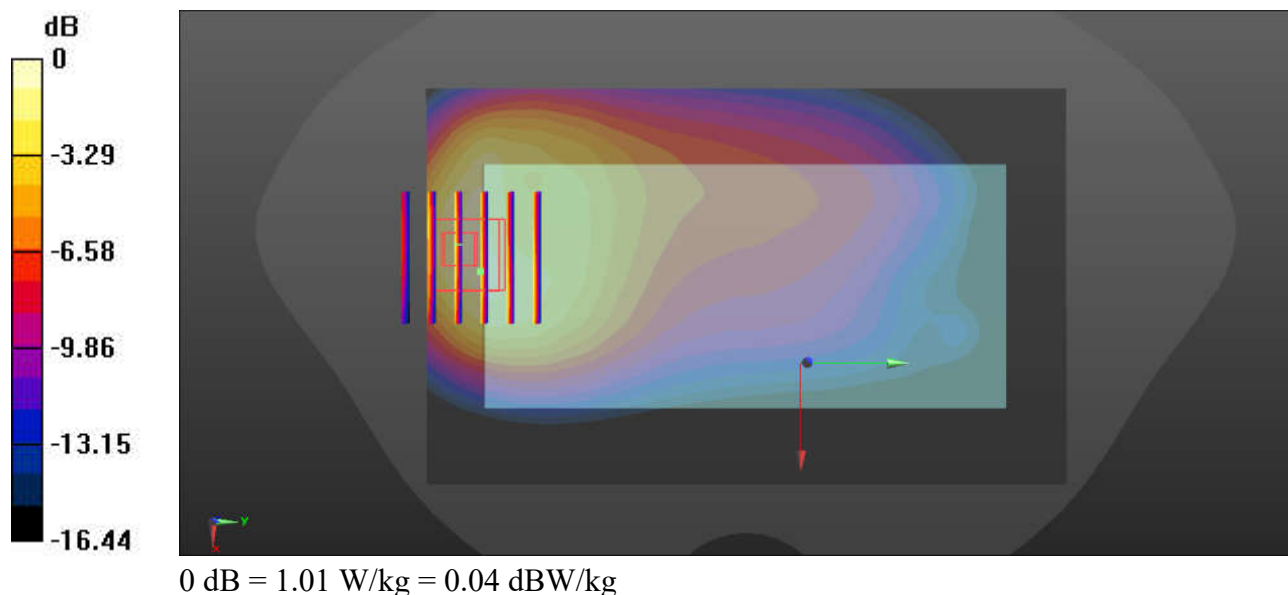
Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.26 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 1.25 W/kg

SAR(1 g) = 0.629 W/kg; SAR(10 g) = 0.345 W/kg

Maximum value of SAR (measured) = 1.01 W/kg



52_GSM850_GPRS (3 Tx slots)_Back_5mm_Ch189

Communication System: UID 0, GSM850 (0); Frequency: 836.4 MHz; Duty Cycle: 1:2.77

Medium: HSL_835 Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.903$ S/m; $\epsilon_r = 41.226$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.8 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(9.98, 9.98, 9.98); Calibrated: 2021/6/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2021/9/21
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (81x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

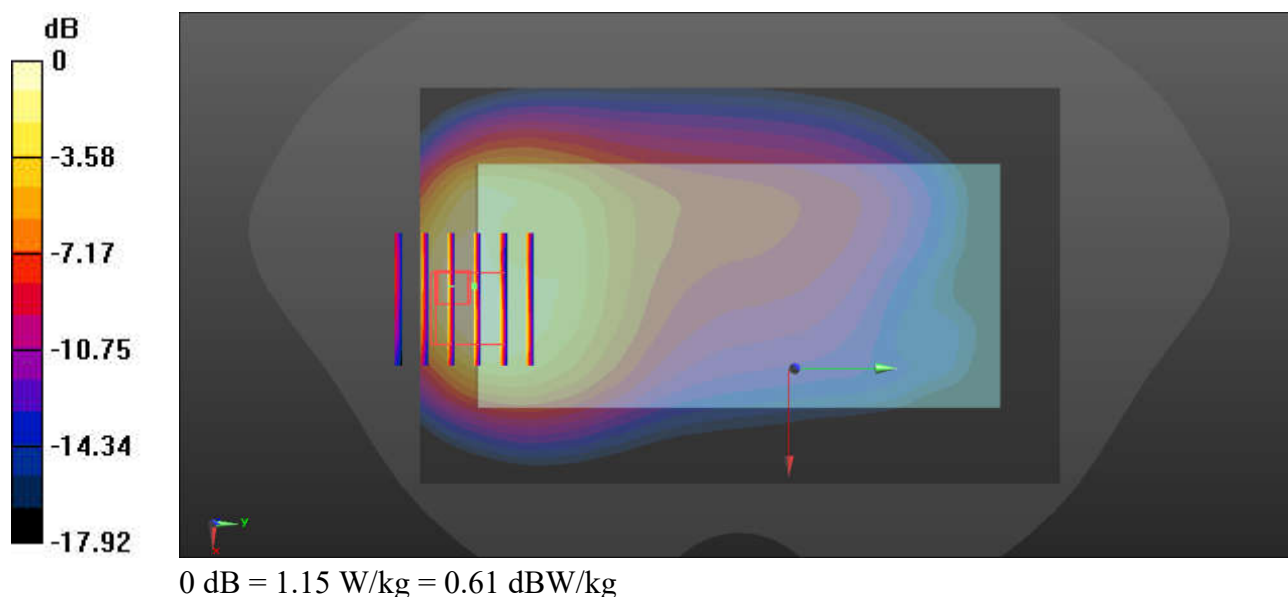
Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.05 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.49 W/kg

SAR(1 g) = 0.687 W/kg; SAR(10 g) = 0.367 W/kg

Maximum value of SAR (measured) = 1.15 W/kg



53_WCDMA V_RMC 12.2Kbps_Back_5mm_Ch4132

Communication System: UID 0, WCDMA (0); Frequency: 826.4 MHz; Duty Cycle: 1:1
Medium: HSL_835 Medium parameters used: $f = 826.4$ MHz; $\sigma = 0.893$ S/m; $\epsilon_r = 41.35$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.8 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(9.98, 9.98, 9.98); Calibrated: 2021/6/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2021/9/21
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (81x131x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

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

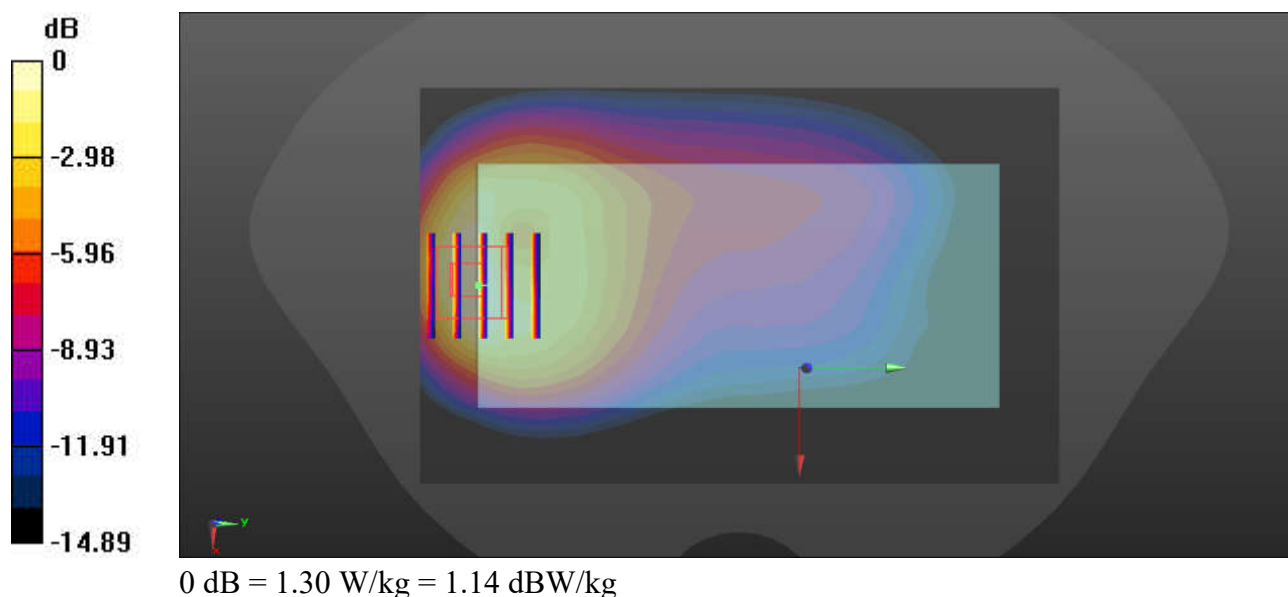
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 3.494 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.69 W/kg

SAR(1 g) = 0.876 W/kg; SAR(10 g) = 0.470 W/kg

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



54_LTE Band 26_15M_QPSK_1RB_0Offset_Back_5mm_Ch26865

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

Medium: HSL_835 Medium parameters used: $f = 831.5$ MHz; $\sigma = 0.898$ S/m; $\epsilon_r = 41.284$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.8 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(9.98, 9.98, 9.98); Calibrated: 2021/6/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2021/9/21
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (81x131x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.927 W/kg

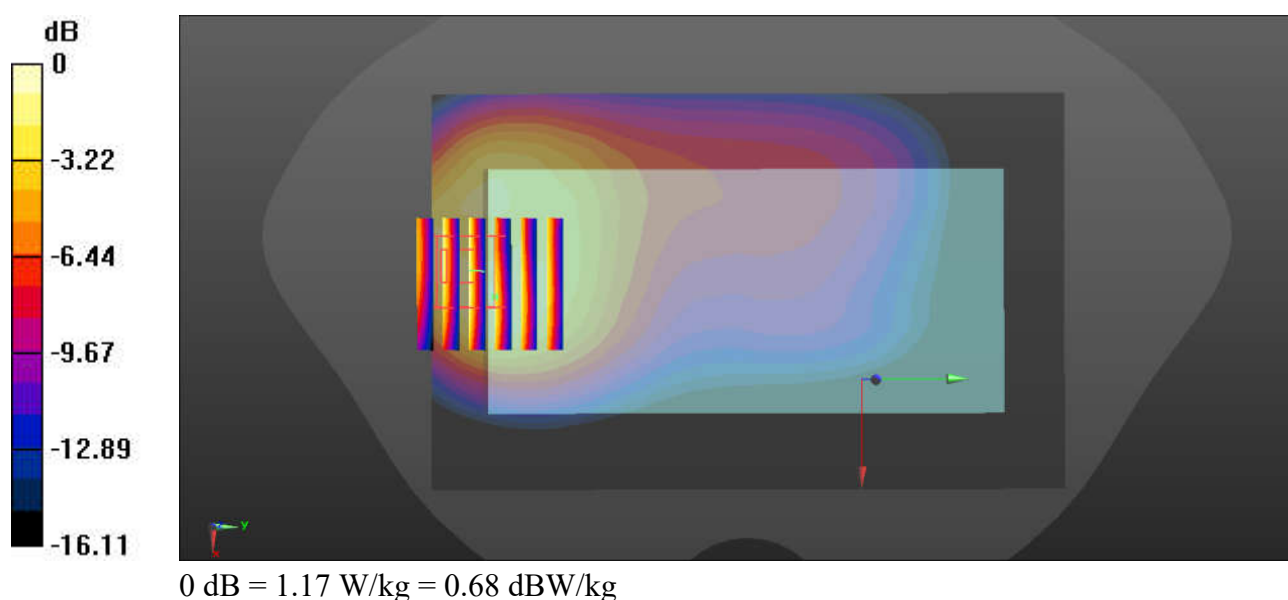
Zoom Scan (6x6x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 12.76 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 1.49 W/kg

SAR(1 g) = 0.767 W/kg; SAR(10 g) = 0.418 W/kg

Maximum value of SAR (measured) = 1.17 W/kg



55_LTE Band 5_10M_QPSK_1RB_0Offset_Back_5mm_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; $\sigma = 0.903$ S/m; $\epsilon_r = 41.224$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.8 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(9.98, 9.98, 9.98); Calibrated: 2021/6/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2021/9/21
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (81x131x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

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

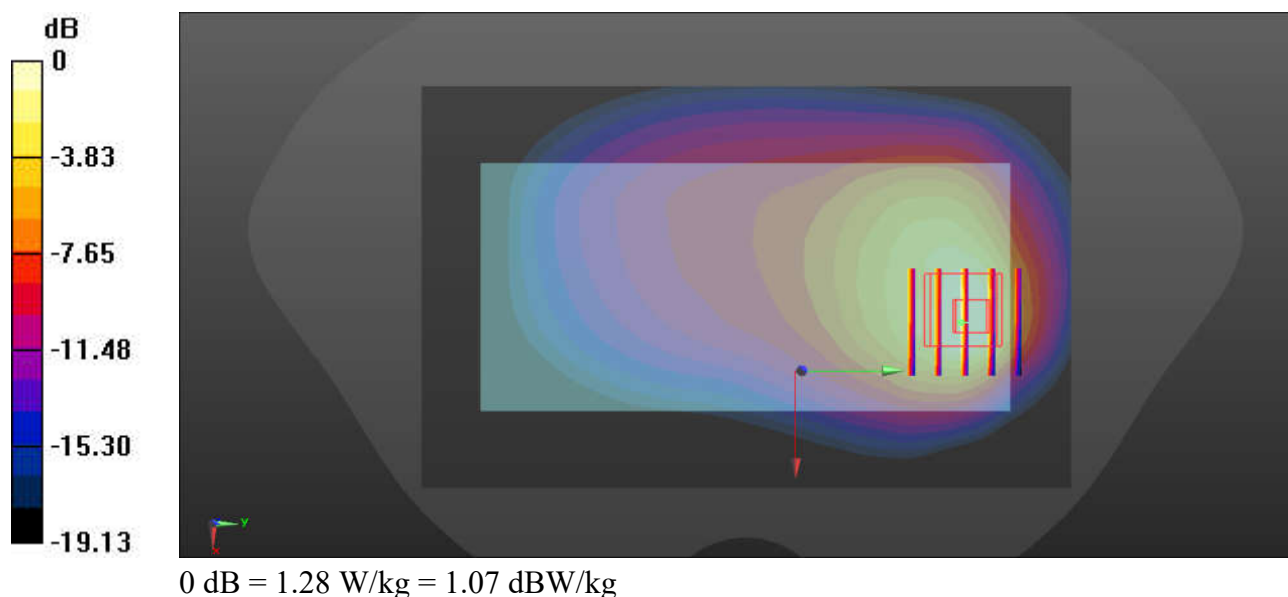
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 17.98 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.84 W/kg

SAR(1 g) = 0.887 W/kg; SAR(10 g) = 0.475 W/kg

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



56_FR1 n5_20M_QPSK_1RB_1Offset_Back_5mm_Ch167300

Communication System: UID 0, 5G NR (0); Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium: HSL_835 Medium parameters used: $f = 836.5$ MHz; $\sigma = 0.903$ S/m; $\epsilon_r = 41.224$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.8 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(9.98, 9.98, 9.98); Calibrated: 2021/6/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2021/9/21
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (81x131x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

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

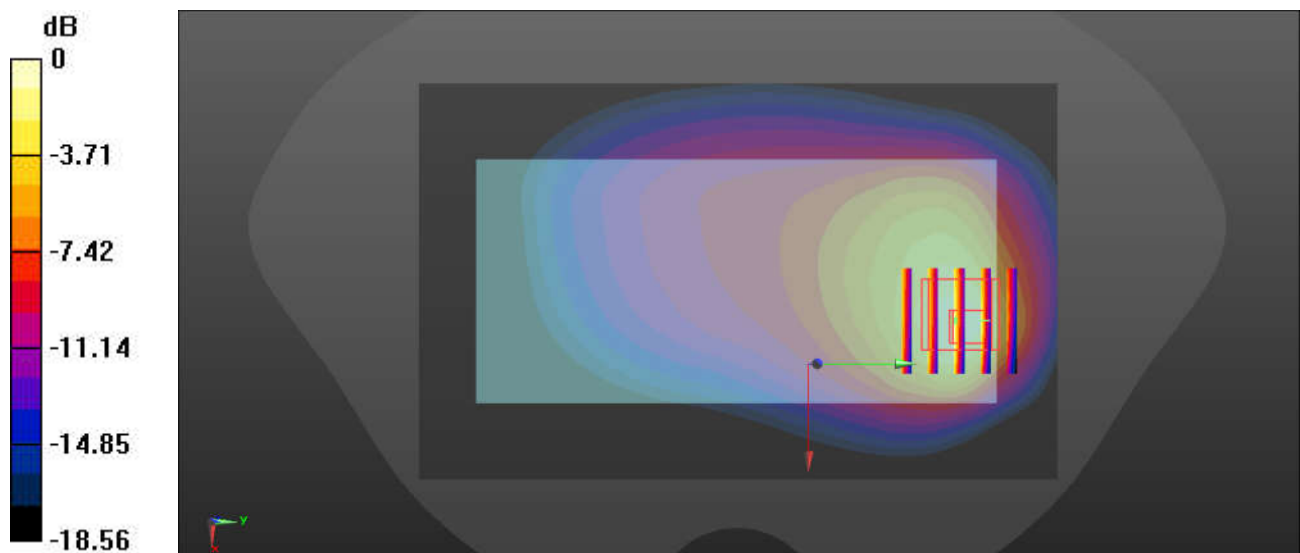
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 22.40 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 2.12 W/kg

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

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



0 dB = 1.58 W/kg = 1.99 dBW/kg

57_WCDMA IV_RMC 12.2Kbps_Back_5mm_Ch1513

Communication System: UID 0, WCDMA (0); Frequency: 1752.6 MHz; Duty Cycle: 1:1
Medium: HSL_1750 Medium parameters used: $f = 1752.6$ MHz; $\sigma = 1.41$ S/m; $\epsilon_r = 40.662$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(8.45, 8.45, 8.45); Calibrated: 2021/6/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2021/9/21
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (81x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

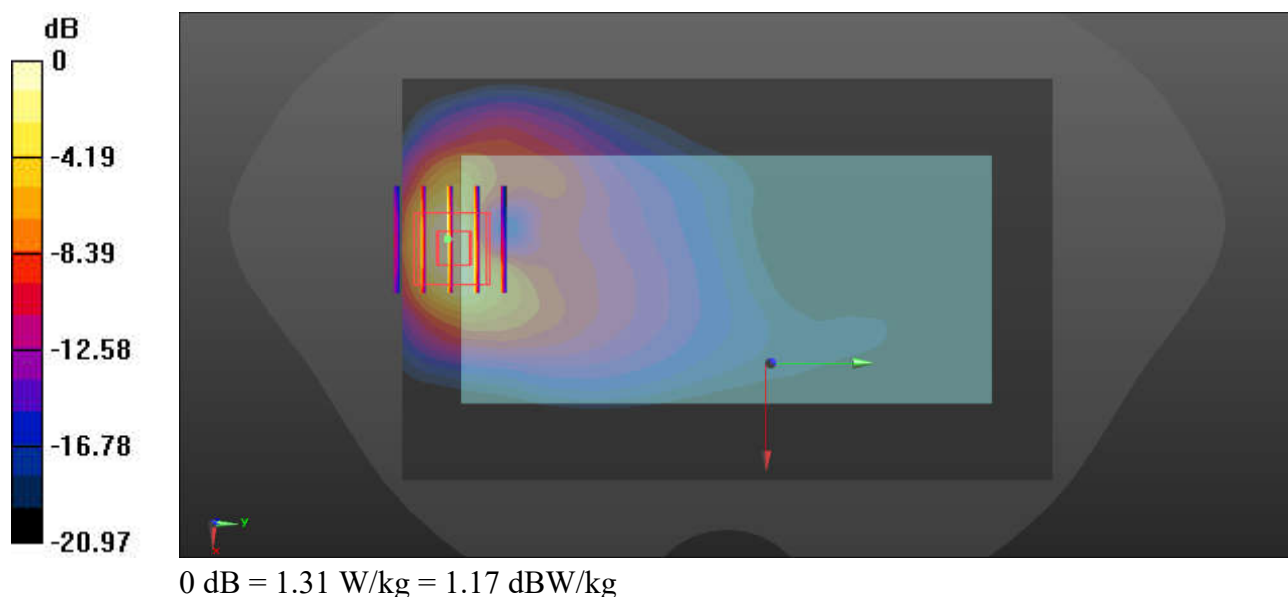
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.232 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.68 W/kg

SAR(1 g) = 0.863 W/kg; SAR(10 g) = 0.406 W/kg

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



58_LTE Band 66_20M_QPSK_1RB_0Offset_Back_5mm_Ch132572

Communication System: UID 0, LTE-FDD (0); Frequency: 1770 MHz; Duty Cycle: 1:1
Medium: HSL_1750 Medium parameters used: $f = 1770$ MHz; $\sigma = 1.42$ S/m; $\epsilon_r = 40.599$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(8.45, 8.45, 8.45); Calibrated: 2021/6/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2021/9/21
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (81x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

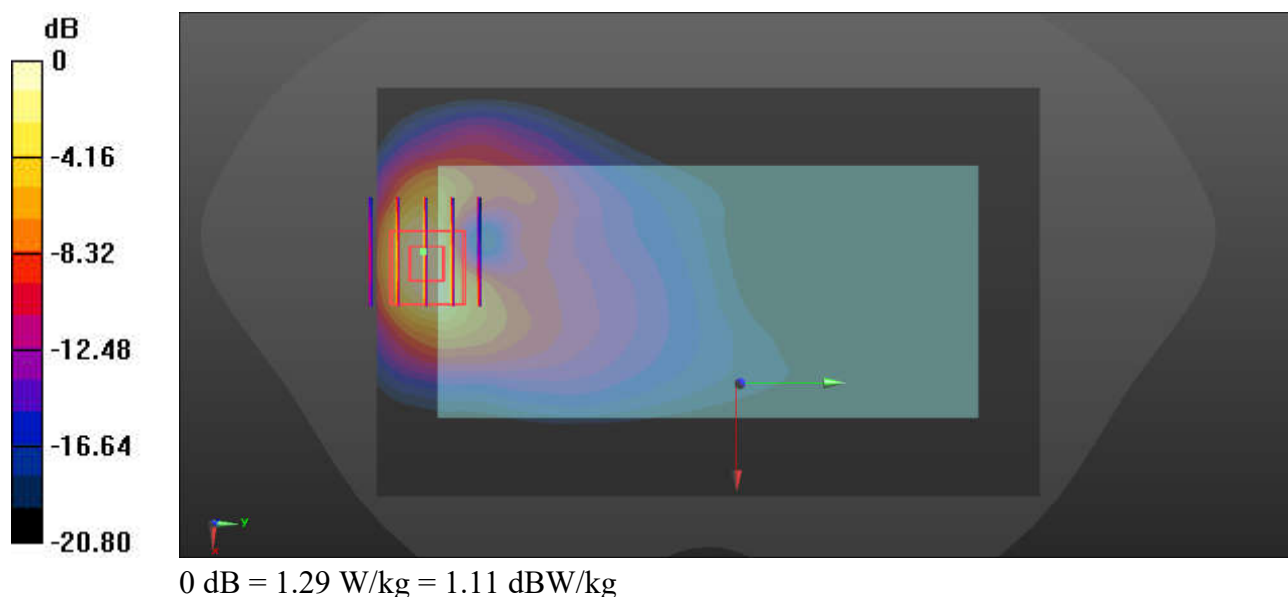
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.720 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.65 W/kg

SAR(1 g) = 0.840 W/kg; SAR(10 g) = 0.393 W/kg

Maximum value of SAR (measured) = 1.29 W/kg



59_FR1 n66_40M_QPSK_1RB_1Offset_Back_5mm_Ch349000

Communication System: UID 0, 5G NR (0); Frequency: 1745 MHz; Duty Cycle: 1:1

Medium: HSL_1750 Medium parameters used: $f = 1745$ MHz; $\sigma = 1.406$ S/m; $\epsilon_r = 40.701$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(8.45, 8.45, 8.45); Calibrated: 2021/6/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2021/9/21
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (81x131x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

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

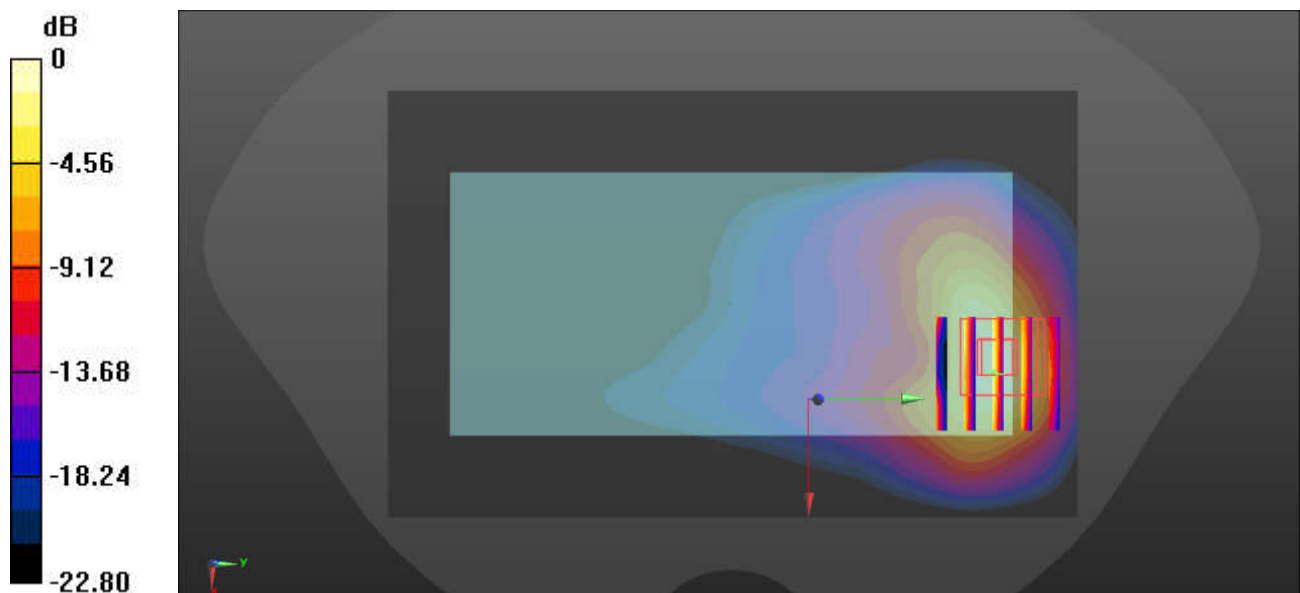
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 12.85 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.85 W/kg

SAR(1 g) = 0.916 W/kg; SAR(10 g) = 0.427 W/kg

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



0 dB = 1.49 W/kg = 1.73 dBW/kg

60_GSM1900_GPRS (3 Tx slots)_Back_5mm_Ch512

Communication System: UID 0, PCS (0); Frequency: 1850.2 MHz; Duty Cycle: 1:2.77

Medium: HSL_1900 Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.347$ S/m; $\epsilon_r = 39.244$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.9 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(8.13, 8.13, 8.13); Calibrated: 2021/6/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2021/9/21
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (81x131x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

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

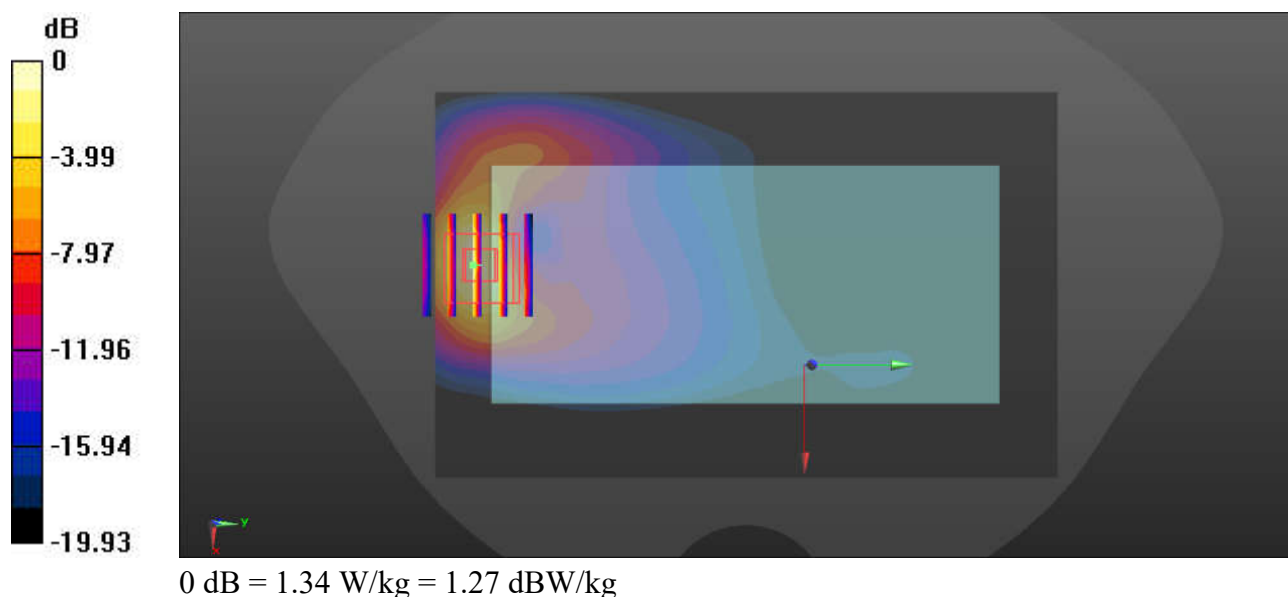
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 4.753 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.71 W/kg

SAR(1 g) = 0.869 W/kg; SAR(10 g) = 0.411 W/kg

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



61_WCDMA II_RMC 12.2Kbps_Back_5mm_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; $\sigma = 1.35$ S/m; $\epsilon_r = 39.239$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.9 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(8.13, 8.13, 8.13); Calibrated: 2021/6/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2021/9/21
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (81x131x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 1.19 W/kg

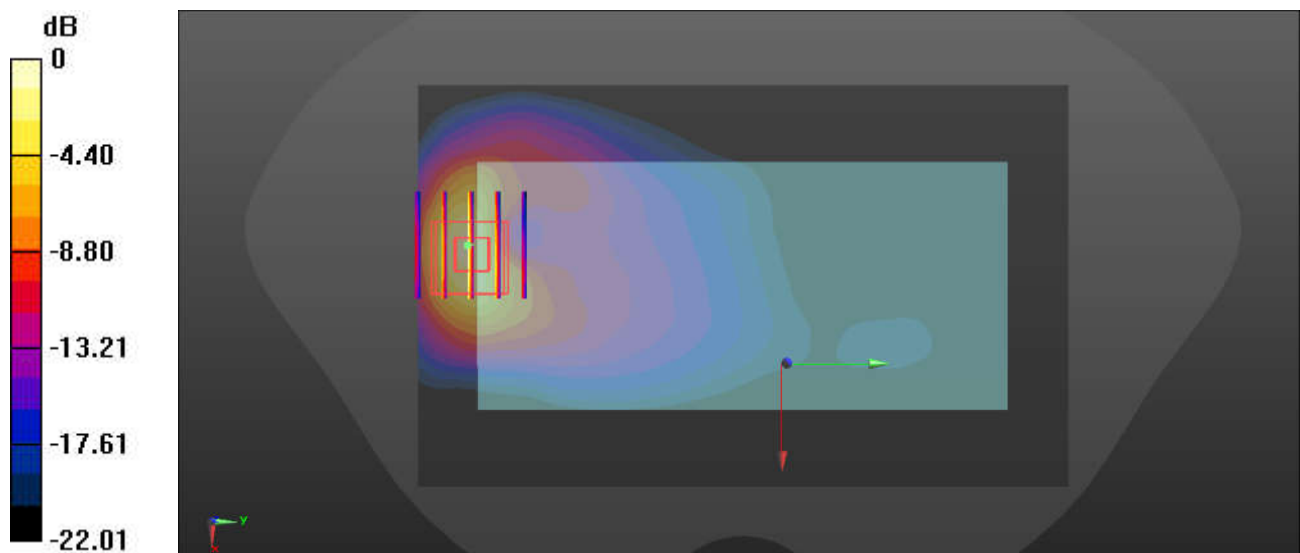
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 2.078 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.89 W/kg

SAR(1 g) = 0.925 W/kg; SAR(10 g) = 0.427 W/kg

Maximum value of SAR (measured) = 1.53 W/kg



0 dB = 1.53 W/kg = 1.85 dBW/kg

62_LTE Band 25_20M_QPSK_1RB_0Offset_Back_5mm_Ch26140

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

Medium: HSL_1900 Medium parameters used: $f = 1860$ MHz; $\sigma = 1.358$ S/m; $\epsilon_r = 39.213$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.9 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(8.13, 8.13, 8.13); Calibrated: 2021/6/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2021/9/21
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.51 W/kg

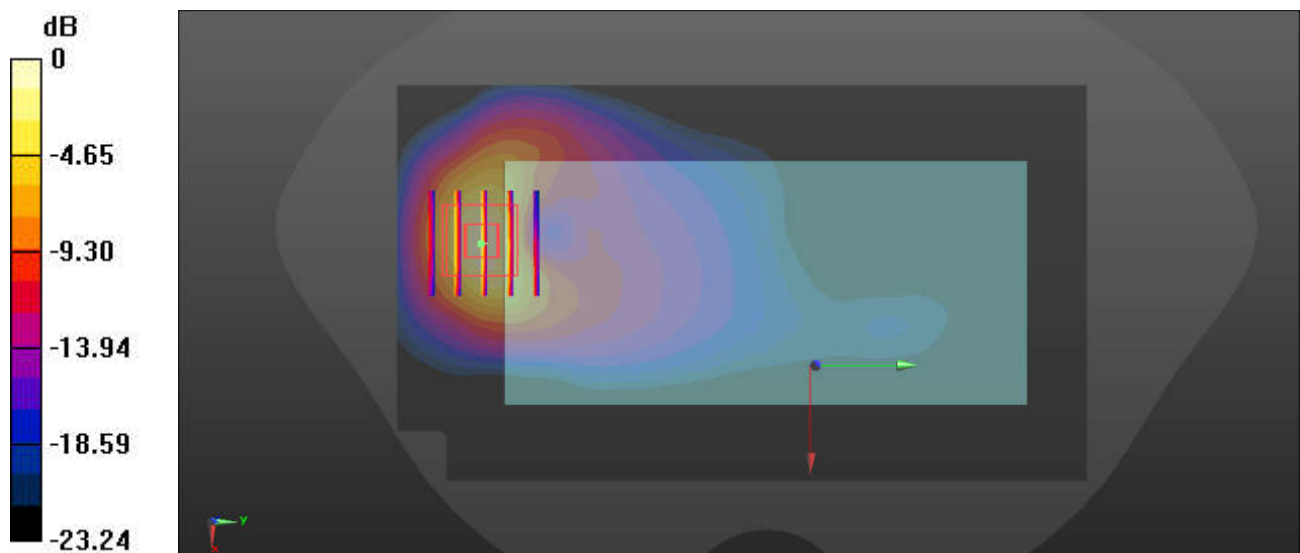
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.198 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 2.09 W/kg

SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.475 W/kg

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



0 dB = 1.73 W/kg = 2.38 dBW/kg

63_LTE Band 7_20M_QPSK_1RB_0Offset_Back_5mm_Ch21100

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

Medium: HSL_2600 Medium parameters used: $f = 2535$ MHz; $\sigma = 1.869$ S/m; $\epsilon_r = 38.455$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(7.26, 7.26, 7.26); Calibrated: 2021/6/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2021/9/21
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (91x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

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

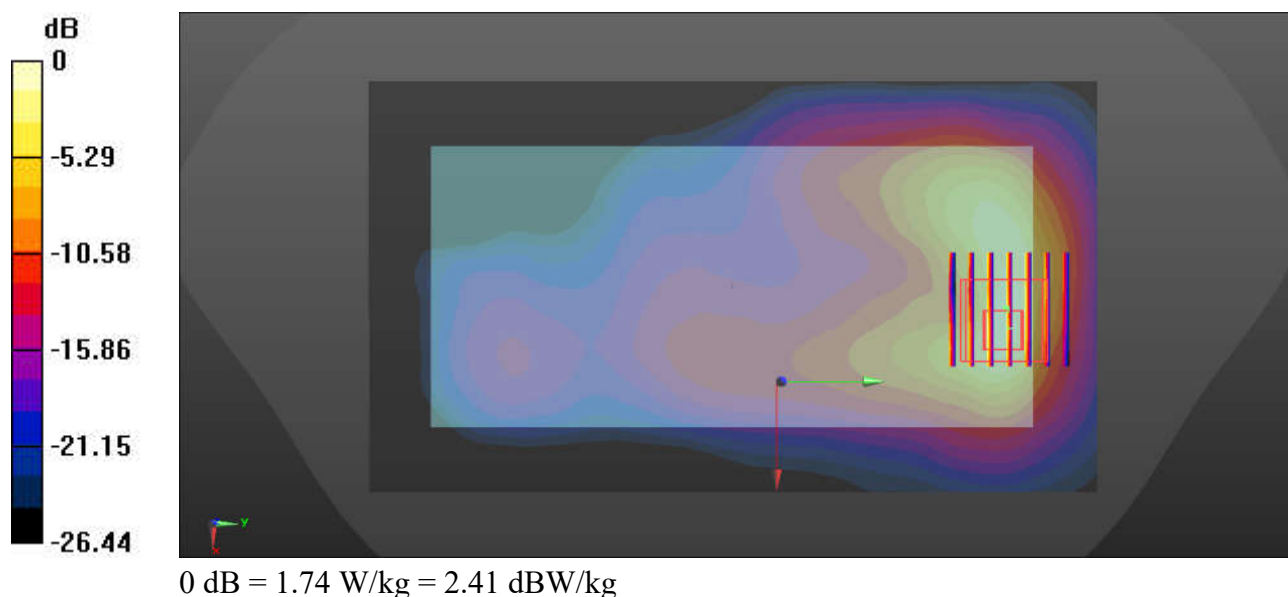
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.569 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 2.20 W/kg

SAR(1 g) = 0.952 W/kg; SAR(10 g) = 0.384 W/kg

Maximum value of SAR (measured) = 1.74 W/kg



64_LTE Band 41_20M_QPSK_1RB_0Offset_Back_5mm_Ch39750

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

Medium: HSL_2600 Medium parameters used: $f = 2506$ MHz; $\sigma = 1.858$ S/m; $\epsilon_r = 38.426$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(7.26, 7.26, 7.26); Calibrated: 2021/6/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2021/9/21
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (101x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

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

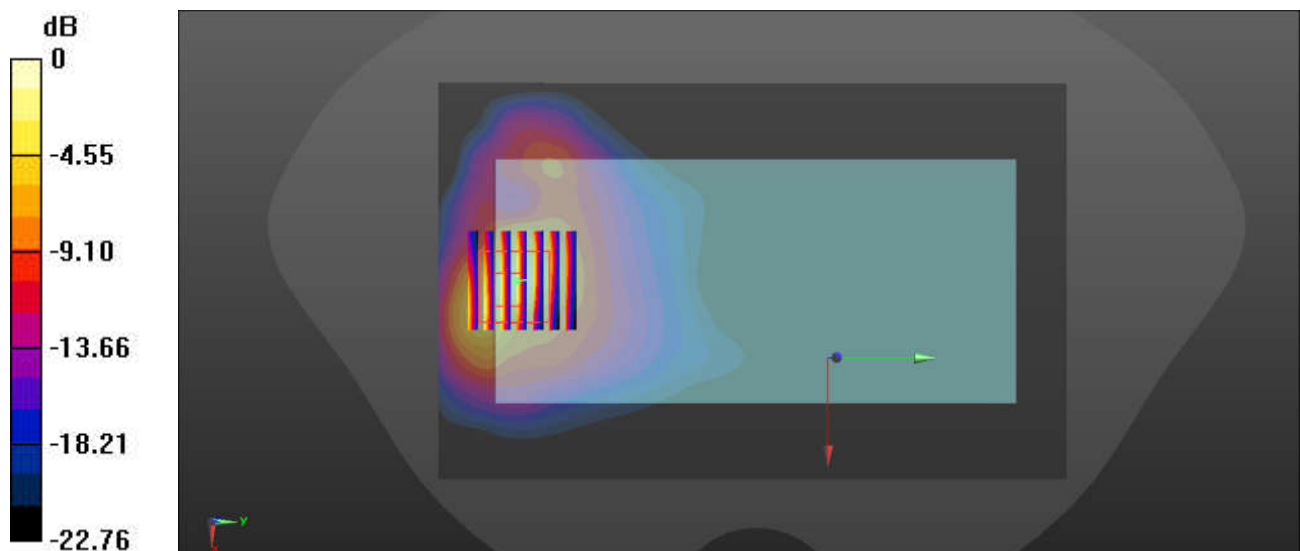
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.318 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 2.12 W/kg

SAR(1 g) = 0.862 W/kg; SAR(10 g) = 0.366 W/kg

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



0 dB = 1.62 W/kg = 2.10 dBW/kg

65_FR1 n7_40M_QPSK_1RB_1Offset_Back_5mm_Ch507000

Communication System: UID 0, 5G NR (0); Frequency: 2535 MHz; Duty Cycle: 1:1

Medium: HSL_2600 Medium parameters used: $f = 2535$ MHz; $\sigma = 1.869$ S/m; $\epsilon_r = 38.455$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(7.26, 7.26, 7.26); Calibrated: 2021/6/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2021/9/21
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (101x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.68 W/kg

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

Reference Value = 0.9150 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 2.25 W/kg

SAR(1 g) = 0.984 W/kg; SAR(10 g) = 0.399 W/kg

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

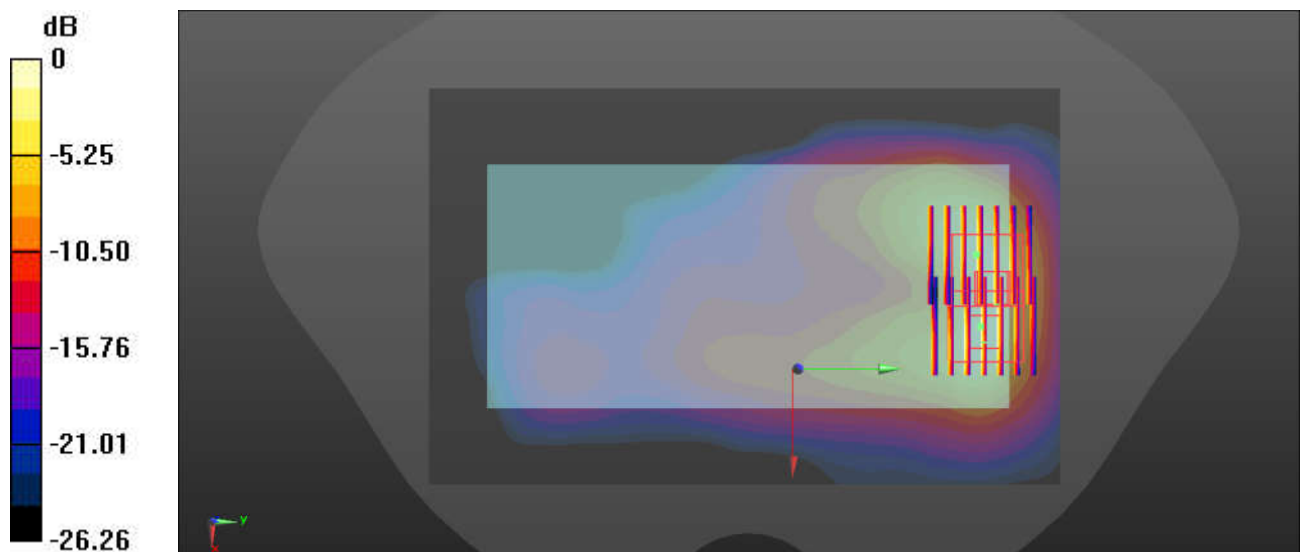
Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.9150 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 1.65 W/kg

SAR(1 g) = 0.749 W/kg; SAR(10 g) = 0.347 W/kg

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



66_FR1 n41_100M_QPSK_1RB_1Offset_Back_5mm_Ch518598

Communication System: UID 0, 5G NR (0); Frequency: 2592.99 MHz; Duty Cycle: 1:1

Medium: HSL_2600 Medium parameters used: $f = 2593$ MHz; $\sigma = 1.917$ S/m; $\epsilon_r = 38.231$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(7.26, 7.26, 7.26); Calibrated: 2021/6/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2021/9/21
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (91x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 2.02 W/kg

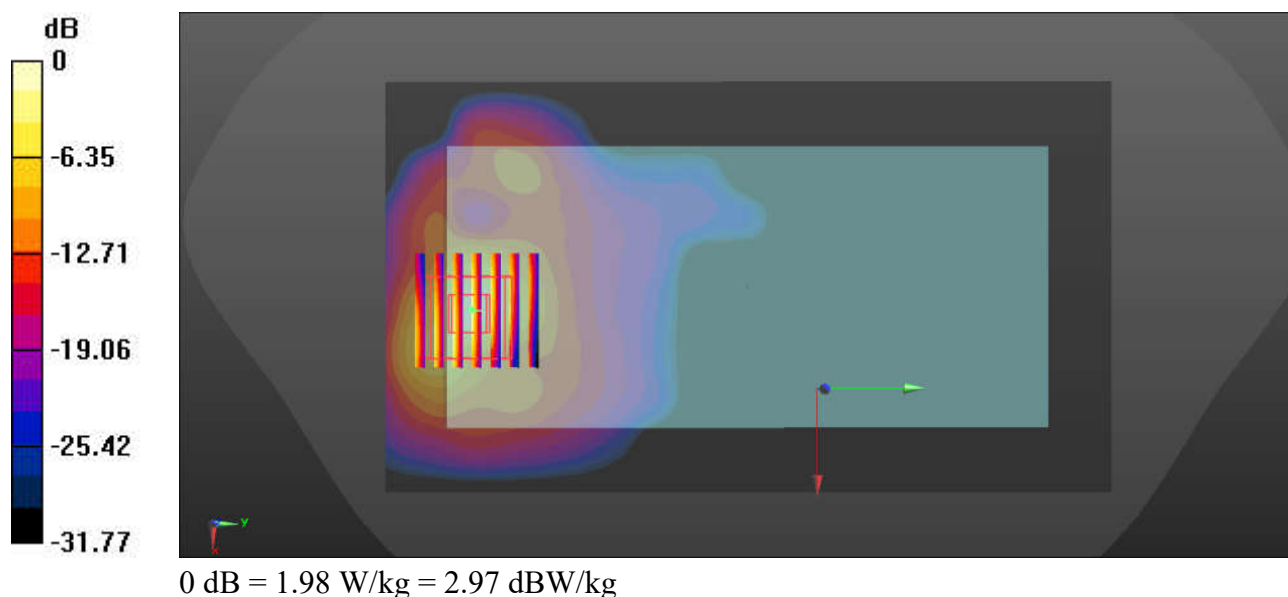
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 2.70 W/kg

SAR(1 g) = 0.967 W/kg; SAR(10 g) = 0.374 W/kg

Maximum value of SAR (measured) = 1.98 W/kg



67_LTE Band 42_20M_QPSK_1RB_0Offset_Back_5mm_Ch42590

Communication System: UID 0, LTE-TDD (0); Frequency: 3500 MHz; Duty Cycle: 1:1.59

Medium: HSL_3500 Medium parameters used: $f = 3500$ MHz; $\sigma = 2.784$ S/m; $\epsilon_r = 38.912$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(6.69, 6.69, 6.69); Calibrated: 2021/6/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2021/9/21
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (111x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

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

Reference Value = 6.716 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 2.66 W/kg

SAR(1 g) = 1.05 W/kg; SAR(10 g) = 0.445 W/kg

Maximum value of SAR (measured) = 1.88 W/kg

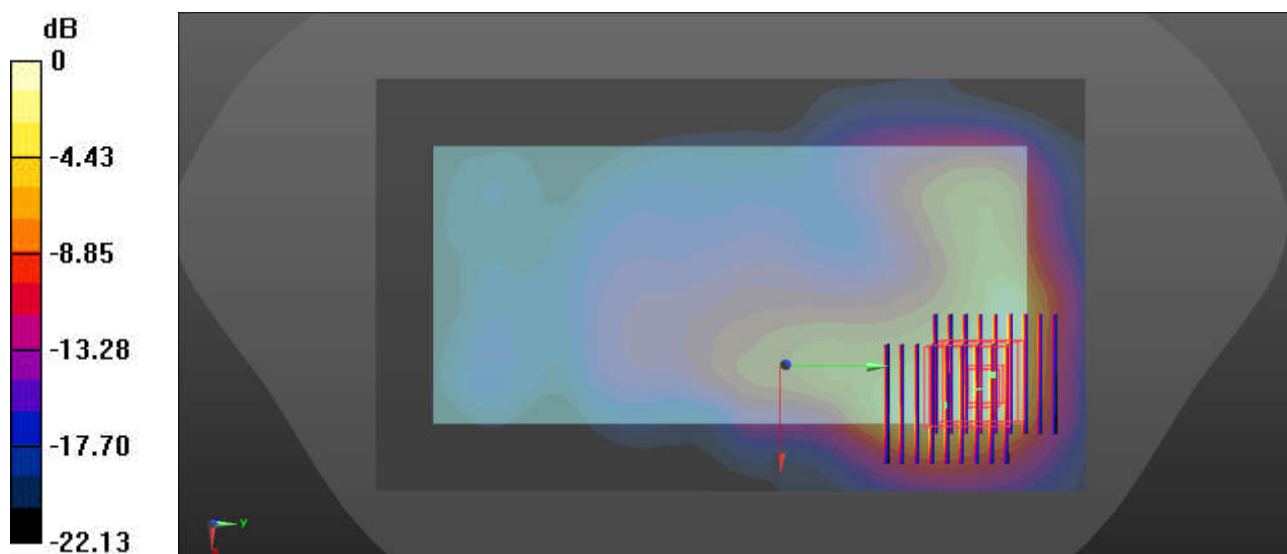
Zoom Scan (9x9x7)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 6.716 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 2.42 W/kg

SAR(1 g) = 1.01 W/kg; SAR(10 g) = 0.405 W/kg

Maximum value of SAR (measured) = 1.84 W/kg



0 dB = 1.84 W/kg = 2.65 dBW/kg

68_FR1 n77-Part27Q_100M_QPSK_1RB_1Offset_Back_5mm_Ch633334

Communication System: UID 0, 5G NR (0); Frequency: 3500.01 MHz; Duty Cycle: 1:1
Medium: HSL_3500 Medium parameters used: $f = 3500.01$ MHz; $\sigma = 2.784$ S/m; $\epsilon_r = 38.912$; $\rho = 1000$ kg/m³
Ambient Temperature : 23.3 °C; Liquid Temperature : 22.7 °C

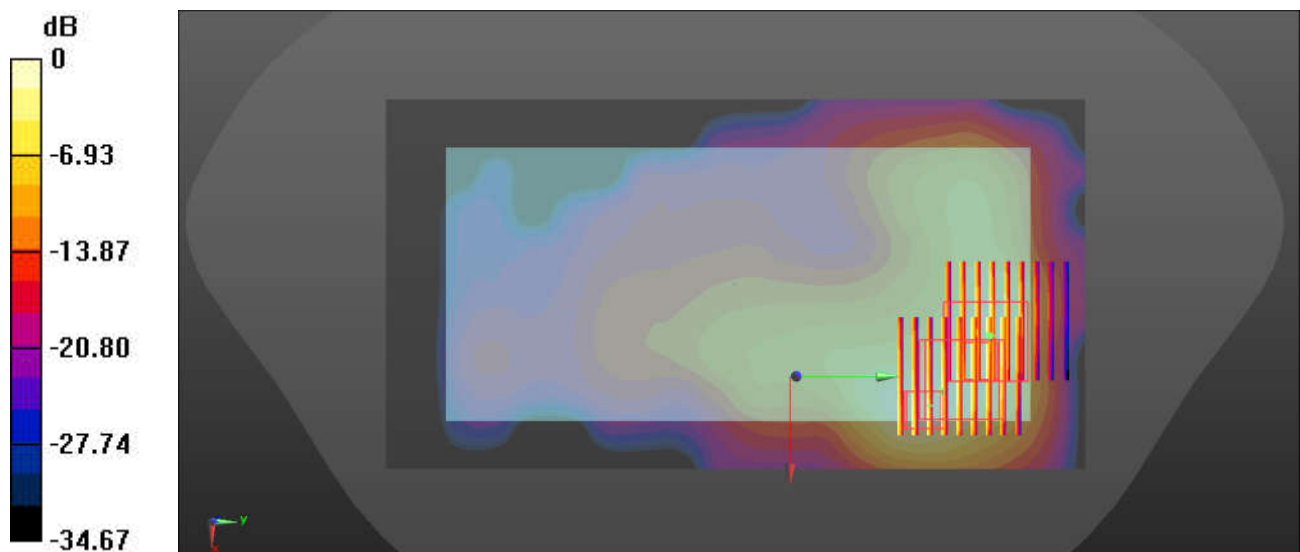
DASY5 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(6.69, 6.69, 6.69); Calibrated: 2021/6/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2021/9/21
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (101x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.89 W/kg

Zoom Scan (9x9x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 5.845 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 3.12 W/kg
SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.442 W/kg
Maximum value of SAR (measured) = 2.22 W/kg

Zoom Scan (9x9x7)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 5.845 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 2.20 W/kg
SAR(1 g) = 0.977 W/kg; SAR(10 g) = 0.406 W/kg
Maximum value of SAR (measured) = 1.76 W/kg



0 dB = 1.76 W/kg = 2.46 dBW/kg

69_FR1 n78-Part27O_100M_QPSK_1RB_1Offset_Back_5mm_Ch650000

Communication System: UID 0, 5G NR (0); Frequency: 3750 MHz; Duty Cycle: 1:1

Medium: HSL_3700 Medium parameters used: $f = 3750$ MHz; $\sigma = 3.043$ S/m; $\epsilon_r = 38.607$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.8 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(6.64, 6.64, 6.64); Calibrated: 2021/6/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2021/9/21
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (101x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

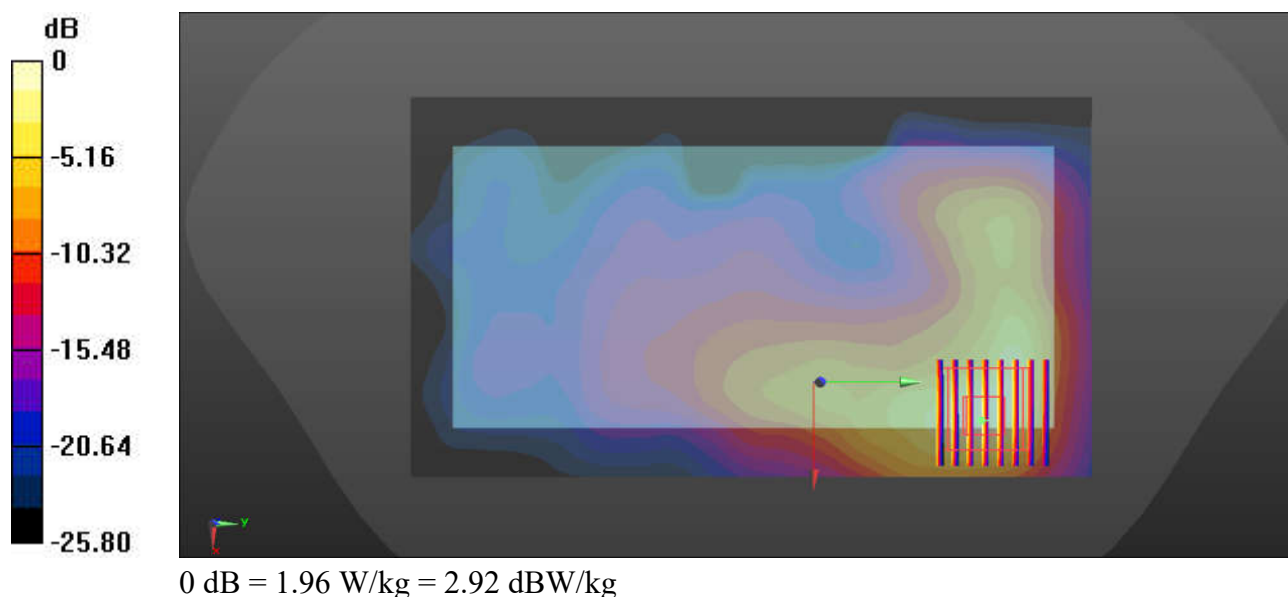
Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 0.8320 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 2.70 W/kg

SAR(1 g) = 1.05 W/kg; SAR(10 g) = 0.392 W/kg

Maximum value of SAR (measured) = 1.96 W/kg



70_WLAN2.4GHz_802.11b 1Mbps_Back_5mm_Ch1

Communication System: UID 0, WLAN2.4GHz (0); Frequency: 2412 MHz; Duty Cycle: 1:1

Medium: HSL_2450 Medium parameters used: $f = 2412$ MHz; $\sigma = 1.787$ S/m; $\epsilon_r = 38.675$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.1 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(7.53, 7.53, 7.53); Calibrated: 2021/6/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2021/9/21
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (91x171x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.21 W/kg

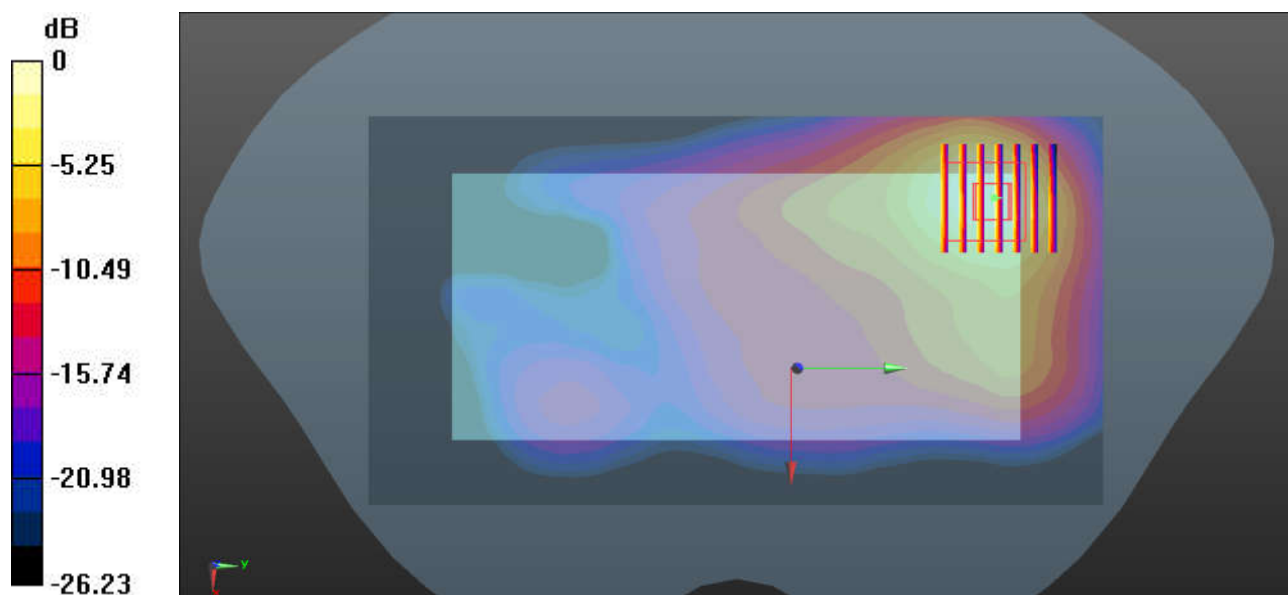
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.847 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.56 W/kg

SAR(1 g) = 0.695 W/kg; SAR(10 g) = 0.336 W/kg

Maximum value of SAR (measured) = 1.20 W/kg



0 dB = 1.20 W/kg = 0.79 dBW/kg

71_Bluetooth_1Mbps_Back_5mm_Ch39

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

Medium: HSL_2450 Medium parameters used: $f = 2441$ MHz; $\sigma = 1.8$ S/m; $\epsilon_r = 38.644$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.1 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(7.53, 7.53, 7.53); Calibrated: 2021/6/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2021/9/21
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (101x171x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.125 W/kg

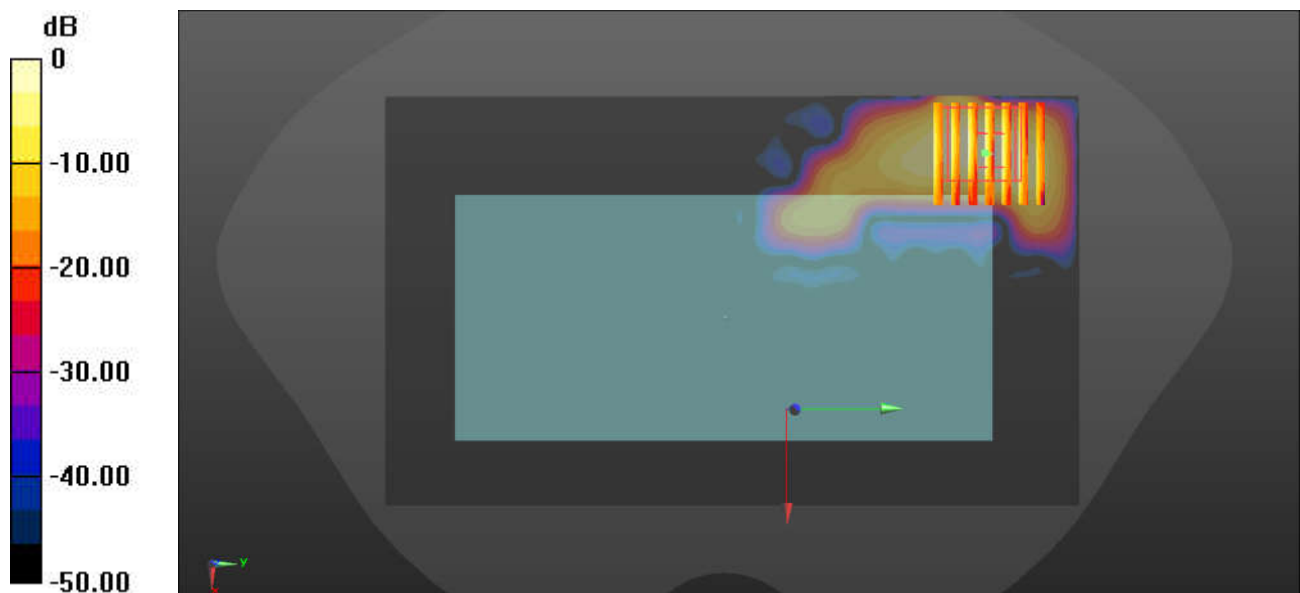
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

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

Peak SAR (extrapolated) = 0.123 W/kg

SAR(1 g) = 0.050 W/kg; SAR(10 g) = 0.017 W/kg

Maximum value of SAR (measured) = 0.0919 W/kg



0 dB = 0.0919 W/kg = -10.37 dBW/kg

72_WLAN5GHz_802.11a 6Mbps_Front_5mm_Ch60

Communication System: UID 0, WLAN5GHz (0); Frequency: 5300 MHz; Duty Cycle: 1:1.112

Medium: HSL_5000 Medium parameters used: $f = 5300$ MHz; $\sigma = 4.591$ S/m; $\epsilon_r = 36.072$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(5.38, 5.38, 5.38); Calibrated: 2021/6/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2021/9/21
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (111x181x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 1.40 W/kg

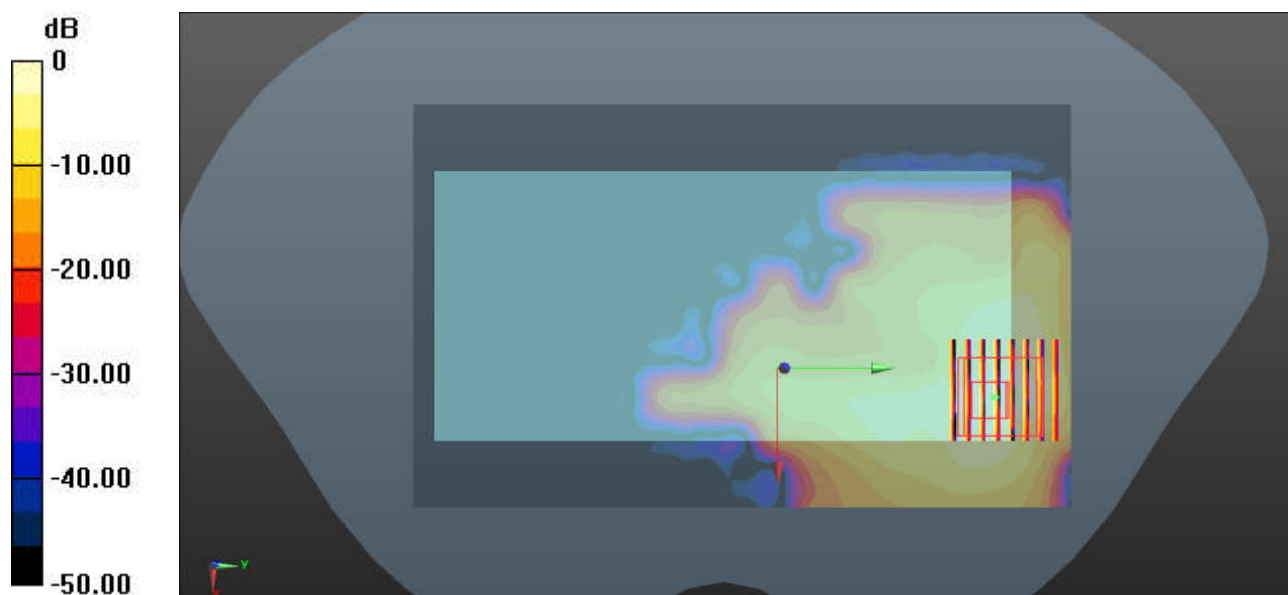
Zoom Scan (8x8x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 1.045 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 2.47 W/kg

SAR(1 g) = 0.614 W/kg; SAR(10 g) = 0.193 W/kg

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



0 dB = 1.49 W/kg = 1.73 dBW/kg

73_WLAN5GHz_802.11ac-VHT40 MCS0_Front_5mm_Ch142

Communication System: UID 0, WLAN5GHz (0); Frequency: 5710 MHz; Duty Cycle: 1:1.129

Medium: HSL_5000 Medium parameters used: $f = 5710$ MHz; $\sigma = 5.054$ S/m; $\epsilon_r = 35.433$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(4.82, 4.82, 4.82); Calibrated: 2021/6/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2021/9/21
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (111x181x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

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

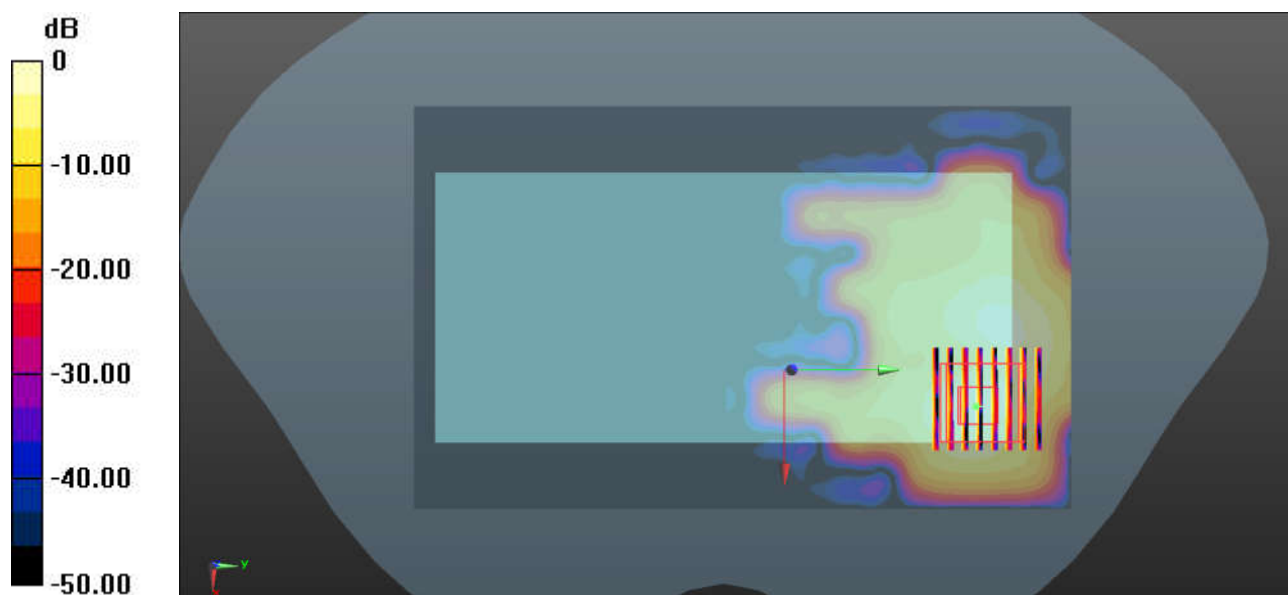
Zoom Scan (8x8x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 0.9780 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.70 W/kg

SAR(1 g) = 0.376 W/kg; SAR(10 g) = 0.107 W/kg

Maximum value of SAR (measured) = 0.989 W/kg



0 dB = 0.989 W/kg = -0.05 dBW/kg

74_WLAN5GHz_802.11ac-VHT40 MCS0_Front_5mm_Ch159

Communication System: UID 0, WLAN5GHz (0); Frequency: 5795 MHz; Duty Cycle: 1:1.129

Medium: HSL_5000 Medium parameters used: $f = 5795$ MHz; $\sigma = 5.149$ S/m; $\epsilon_r = 35.335$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(4.82, 4.82, 4.82); Calibrated: 2021/6/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2021/9/21
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (111x181x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 1.16 W/kg

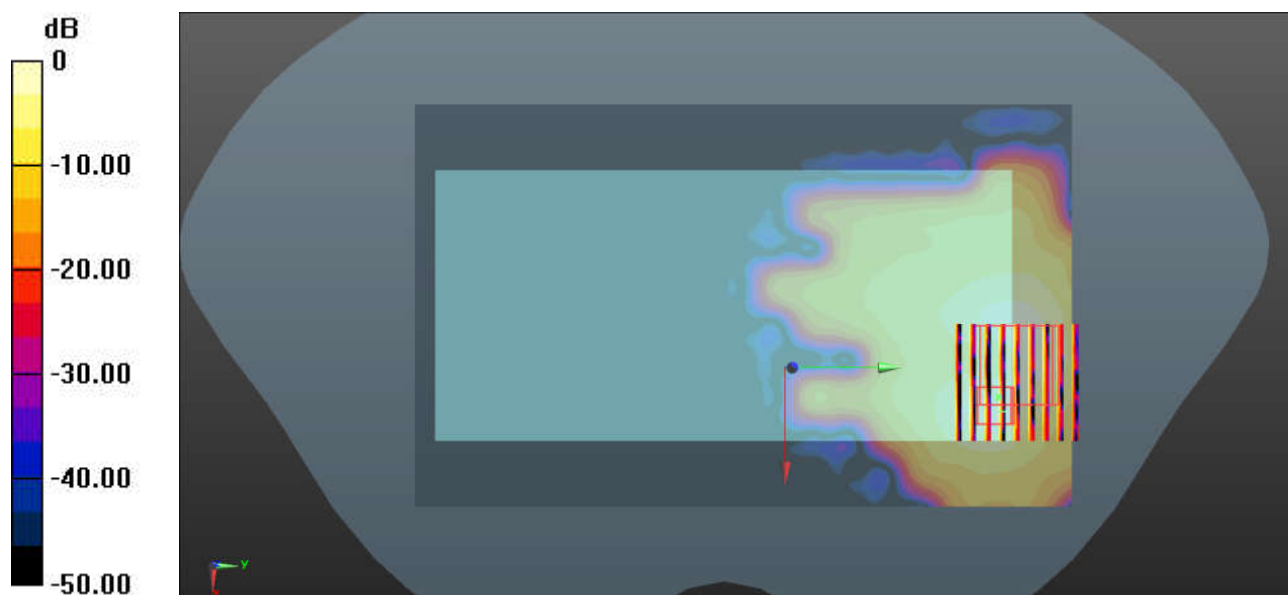
Zoom Scan (9x9x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

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

Peak SAR (extrapolated) = 3.41 W/kg

SAR(1 g) = 0.728 W/kg; SAR(10 g) = 0.223 W/kg

Maximum value of SAR (measured) = 1.85 W/kg



0 dB = 1.85 W/kg = 2.67 dBW/kg

75_WCDMA IV_RMC 12.2Kbps_Front_0mm_Ch1513

Communication System: UID 0, WCDMA (0); Frequency: 1752.6 MHz; Duty Cycle: 1:1
Medium: HSL_1750 Medium parameters used: $f = 1752.6$ MHz; $\sigma = 1.41$ S/m; $\epsilon_r = 40.662$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(8.45, 8.45, 8.45); Calibrated: 2021/6/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2021/9/21
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (81x131x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 11.2 W/kg

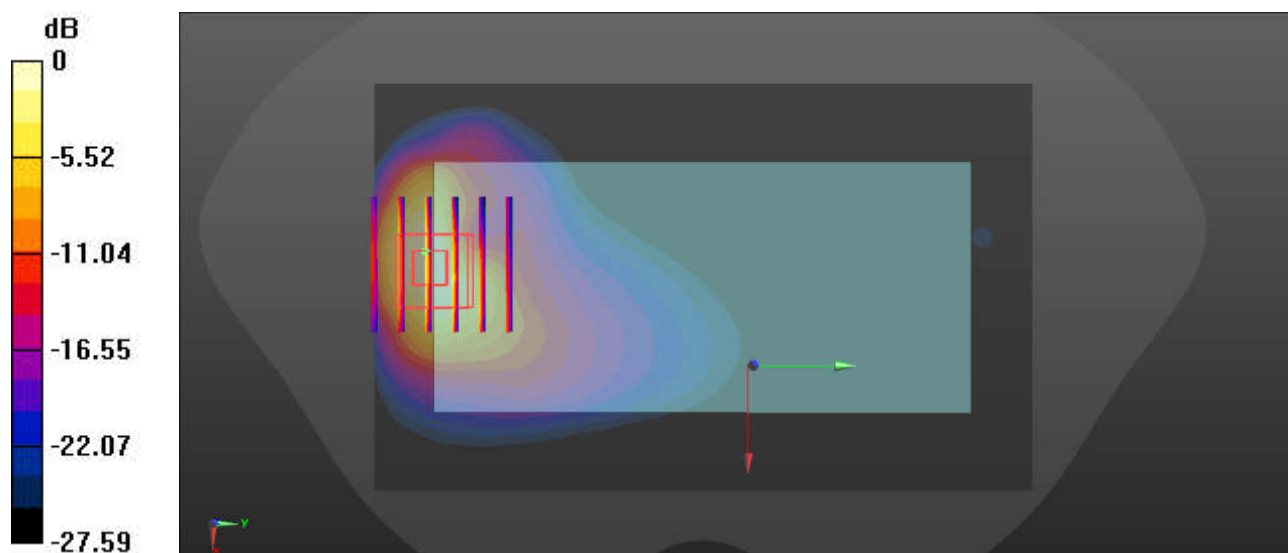
Zoom Scan (6x6x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 0.6360 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 14.1 W/kg

SAR(1 g) = 5.9 W/kg; SAR(10 g) = 2.51 W/kg

Maximum value of SAR (measured) = 11.2 W/kg



0 dB = 11.2 W/kg = 10.49 dBW/kg

76_LTE Band 66_20M_QPSK_1RB_0Offset_Back_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; $\sigma = 1.42$ S/m; $\epsilon_r = 40.599$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(8.45, 8.45, 8.45); Calibrated: 2021/6/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2021/9/21
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (81x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 4.29 W/kg

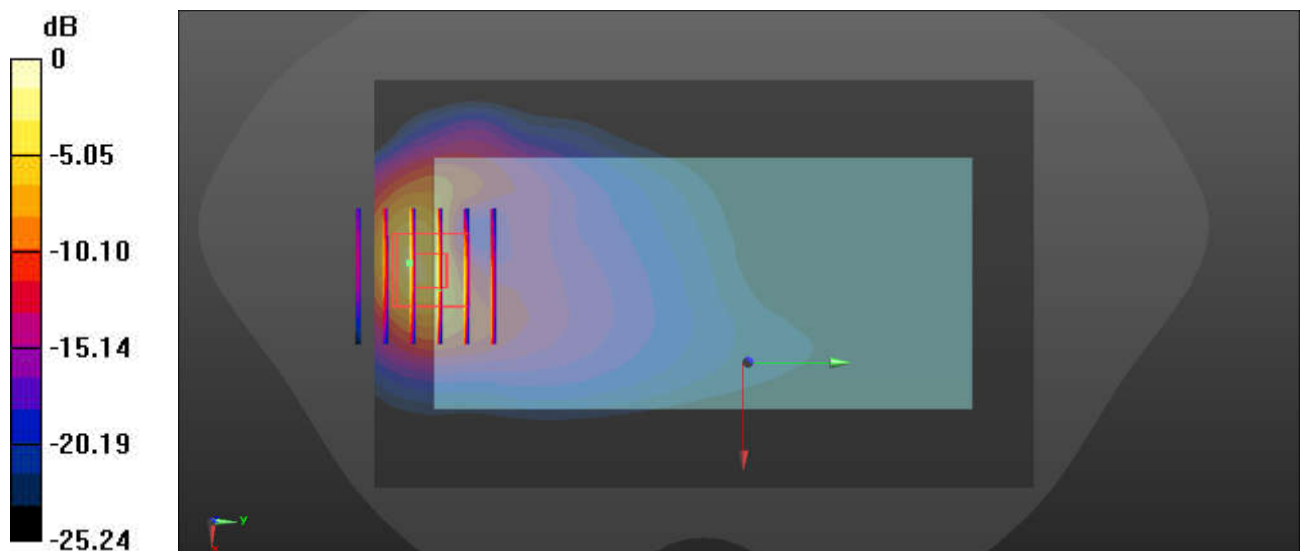
Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.889 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 11.7 W/kg

SAR(1 g) = 5.33 W/kg; SAR(10 g) = 2.44 W/kg

Maximum value of SAR (measured) = 8.41 W/kg



0 dB = 8.41 W/kg = 9.25 dBW/kg

77_FR1 n66_40M_QPSK_108RB_54Offset_Top Side_0mm_Ch349000

Communication System: UID 0, 5G NR (0); Frequency: 1745 MHz; Duty Cycle: 1:1

Medium: HSL_1750 Medium parameters used: $f = 1745$ MHz; $\sigma = 1.406$ S/m; $\epsilon_r = 40.701$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(8.45, 8.45, 8.45); Calibrated: 2021/6/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2021/9/21
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (41x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 9.54 W/kg

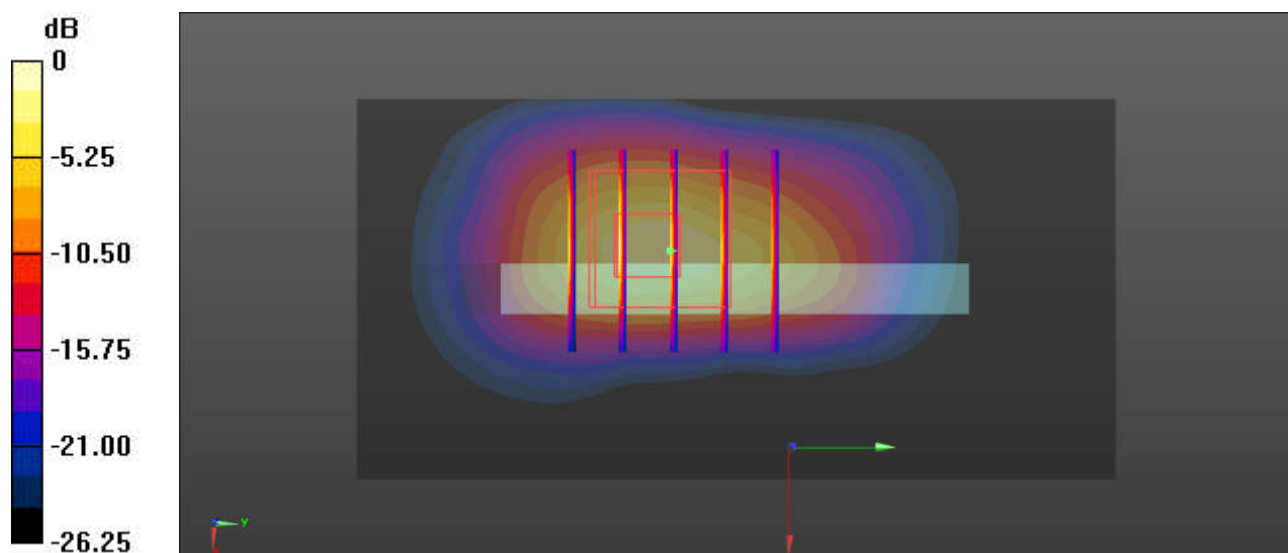
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 54.60 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 18.7 W/kg

SAR(1 g) = 6.95 W/kg; SAR(10 g) = 2.58 W/kg

Maximum value of SAR (measured) = 14.8 W/kg



0 dB = 14.8 W/kg = 11.70 dBW/kg

78_GSM1900_GPRS (3 Tx slots)_Back_0mm_Ch512

Communication System: UID 0, PCS (0); Frequency: 1850.2 MHz; Duty Cycle: 1:2.77

Medium: HSL_1900 Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.347$ S/m; $\epsilon_r = 39.244$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.9 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(8.13, 8.13, 8.13); Calibrated: 2021/6/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2021/9/21
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (81x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 6.47 W/kg

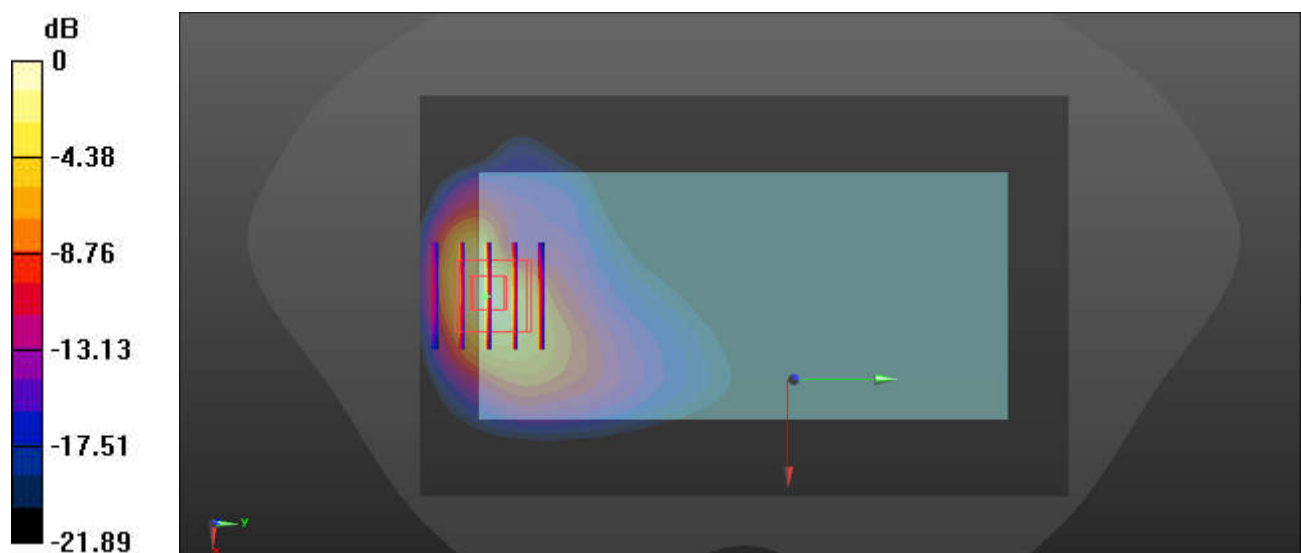
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.181 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 9.59 W/kg

SAR(1 g) = 4.31 W/kg; SAR(10 g) = 1.91 W/kg

Maximum value of SAR (measured) = 7.48 W/kg



0 dB = 7.48 W/kg = 8.74 dBW/kg

78_WCDMA II_RMC 12.2Kbps_Front_0mm_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; $\sigma = 1.35$ S/m; $\epsilon_r = 39.239$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.9 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(8.13, 8.13, 8.13); Calibrated: 2021/6/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2021/9/21
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (81x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

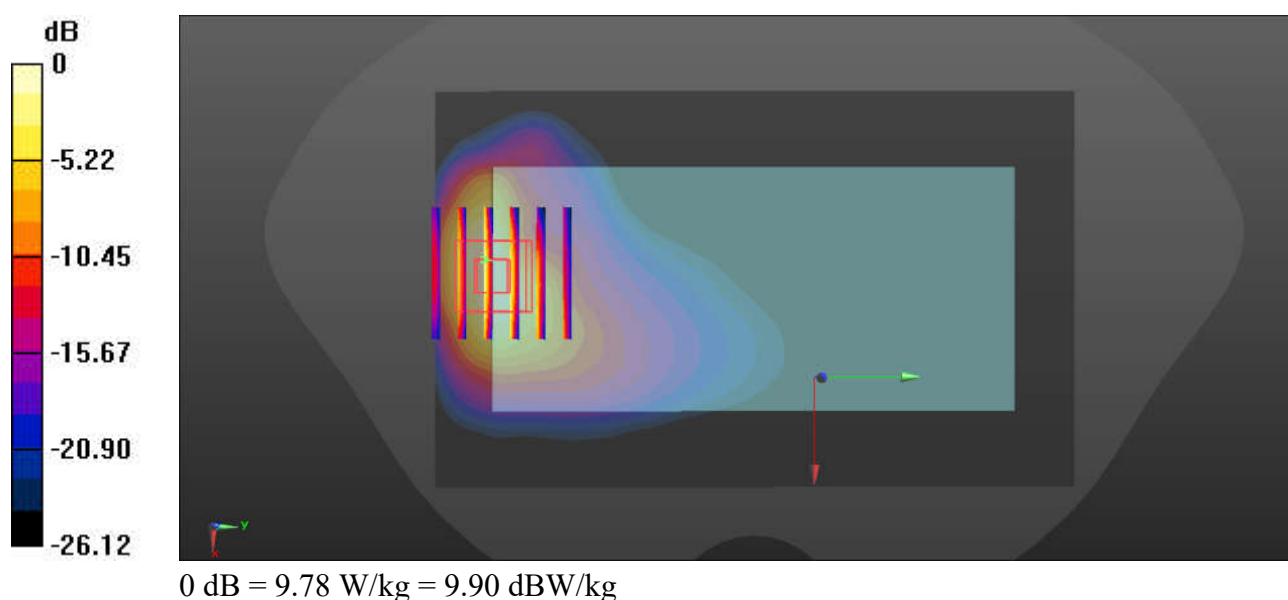
Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 0.8110 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 12.7 W/kg

SAR(1 g) = 5.6 W/kg; SAR(10 g) = 2.53 W/kg

Maximum value of SAR (measured) = 9.78 W/kg



80_LTE Band 25_20M_QPSK_1RB_0Offset_Back_0mm_Ch26140

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

Medium: HSL_1900 Medium parameters used: $f = 1860$ MHz; $\sigma = 1.358$ S/m; $\epsilon_r = 39.213$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.9 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(8.13, 8.13, 8.13); Calibrated: 2021/6/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2021/9/21
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (81x131x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 9.01 W/kg

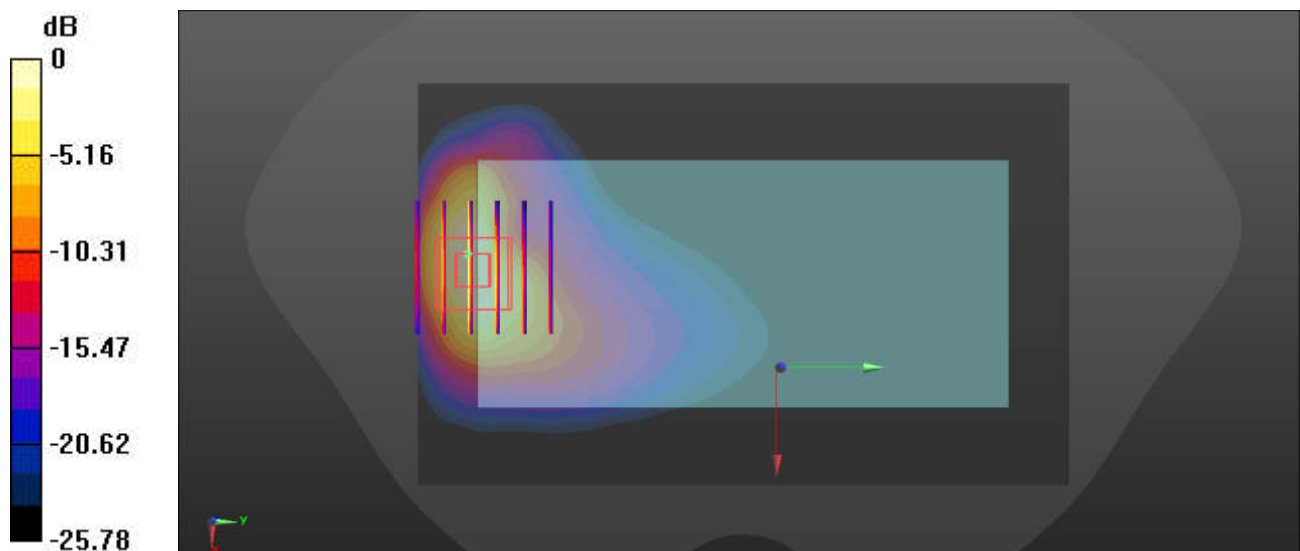
Zoom Scan (6x6x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 1.501 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 11.4 W/kg

SAR(1 g) = 4.85 W/kg; SAR(10 g) = 2.19 W/kg

Maximum value of SAR (measured) = 8.83 W/kg



0 dB = 8.83 W/kg = 9.46 dBW/kg

81_LTE Band 7_20M_QPSK_1RB_0Offset_Back_0mm_Ch21100

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

Medium: HSL_2600 Medium parameters used: $f = 2535$ MHz; $\sigma = 1.869$ S/m; $\epsilon_r = 38.455$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(7.26, 7.26, 7.26); Calibrated: 2021/6/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2021/9/21
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (101x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 12.3 W/kg

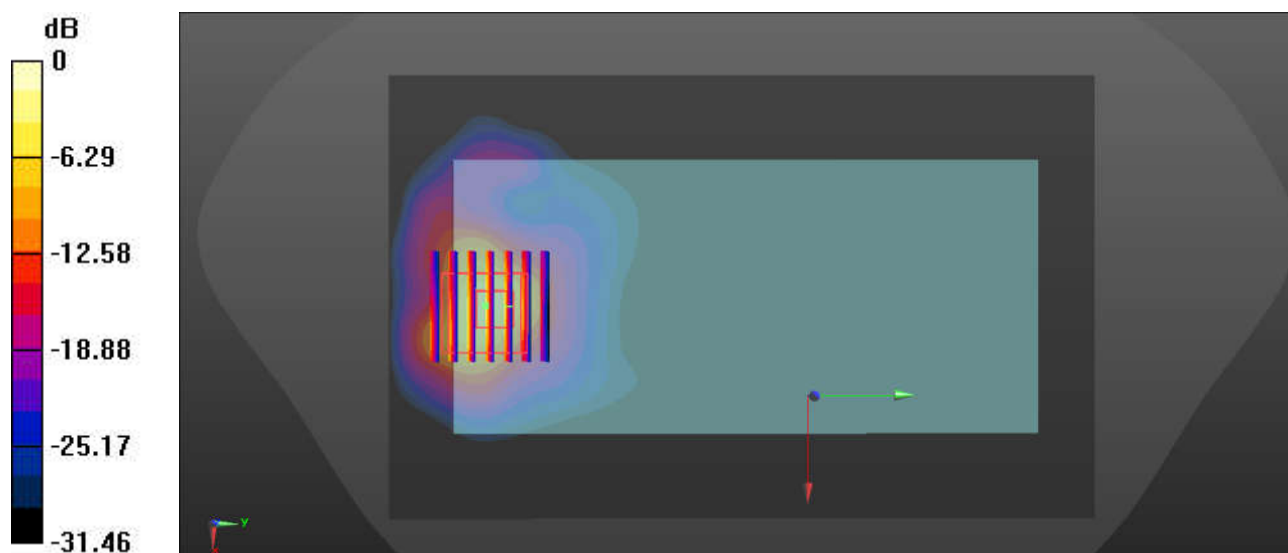
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.8940 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 37.4 W/kg

SAR(1 g) = 7.59 W/kg; SAR(10 g) = 2.4 W/kg

Maximum value of SAR (measured) = 21.3 W/kg



0 dB = 21.3 W/kg = 13.28 dBW/kg

82_LTE Band 41_20M_QPSK_1RB_0Offset_Back_0mm_Ch39750

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

Medium: HSL_2600 Medium parameters used: $f = 2506$ MHz; $\sigma = 1.858$ S/m; $\epsilon_r = 38.426$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(7.26, 7.26, 7.26); Calibrated: 2021/6/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2021/9/21
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (101x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 12.9 W/kg

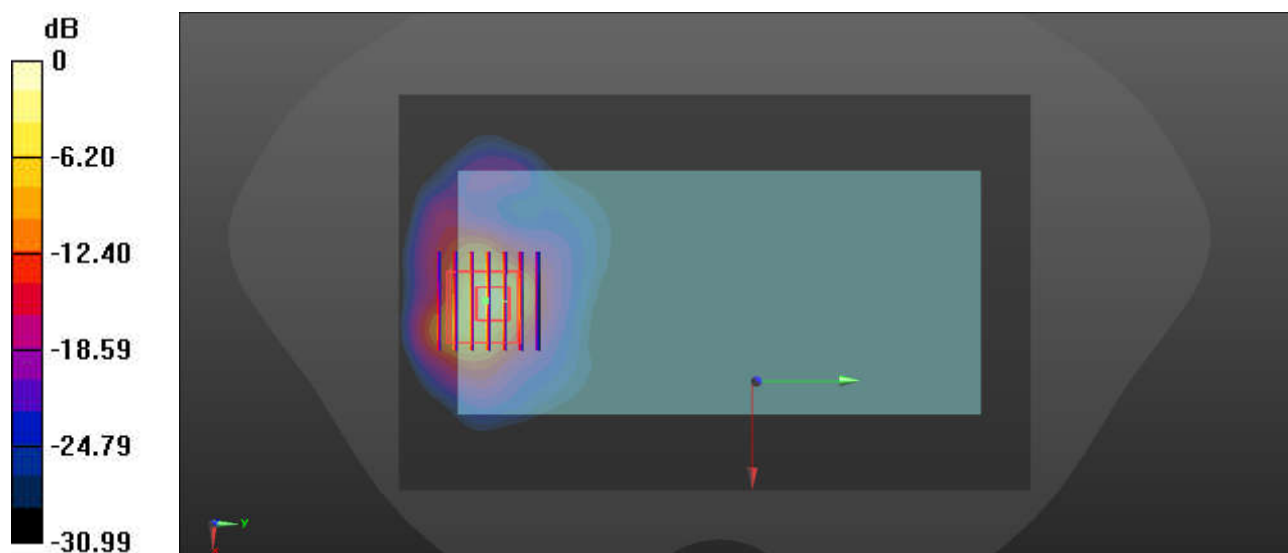
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.182 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 37.8 W/kg

SAR(1 g) = 7.76 W/kg; SAR(10 g) = 2.51 W/kg

Maximum value of SAR (measured) = 21.6 W/kg



0 dB = 21.6 W/kg = 13.34 dBW/kg

83_FR1 n7_40M_QPSK_108RB_54Offset_Back_0mm_Ch507000

Communication System: UID 0, 5G NR (0); Frequency: 2535 MHz; Duty Cycle: 1:1

Medium: HSL_2600 Medium parameters used: $f = 2535$ MHz; $\sigma = 1.869$ S/m; $\epsilon_r = 38.455$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(7.26, 7.26, 7.26); Calibrated: 2021/6/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2021/9/21
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (91x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 15.4 W/kg

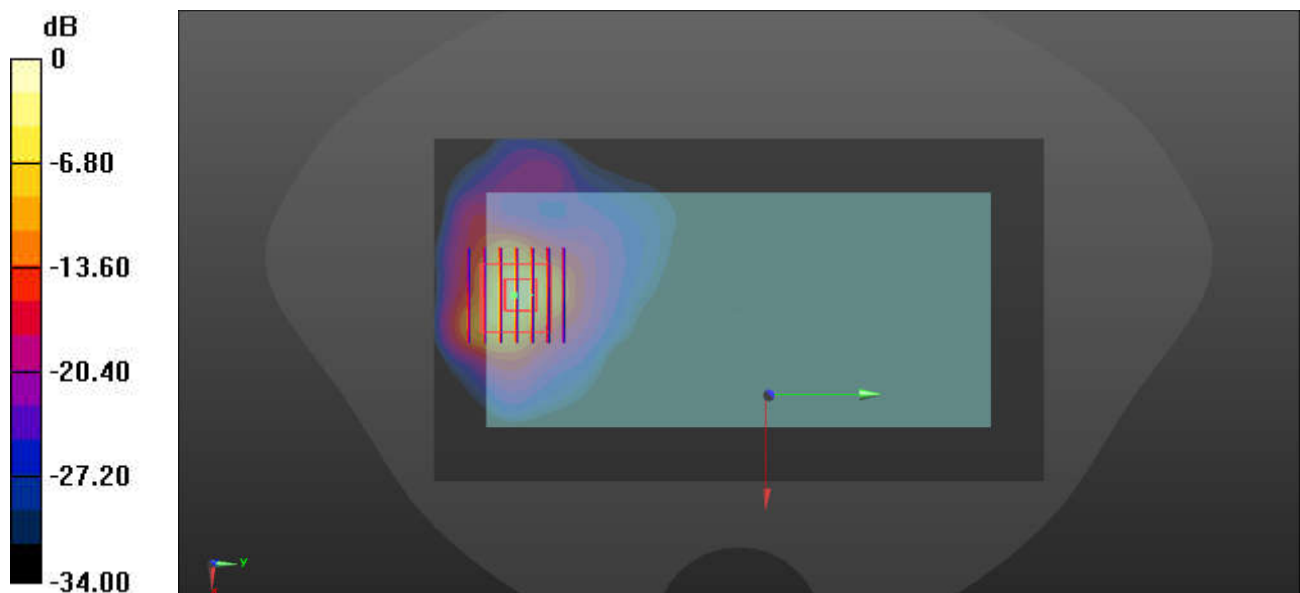
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.2830 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 42.0 W/kg

SAR(1 g) = 7.73 W/kg; SAR(10 g) = 2.35 W/kg

Maximum value of SAR (measured) = 24.5 W/kg



0 dB = 24.5 W/kg = 13.89 dBW/kg

84_FR1 n41_100M_QPSK_1RB_1Offset_Back_0mm_Ch518598

Communication System: UID 0, 5G NR (0); Frequency: 2592.99 MHz; Duty Cycle: 1:1
Medium: HSL_2600 Medium parameters used: $f = 2593$ MHz; $\sigma = 1.917$ S/m; $\epsilon_r = 38.231$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(7.26, 7.26, 7.26); Calibrated: 2021/6/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2021/9/21
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (91x161x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm
Maximum value of SAR (interpolated) = 20.0 W/kg

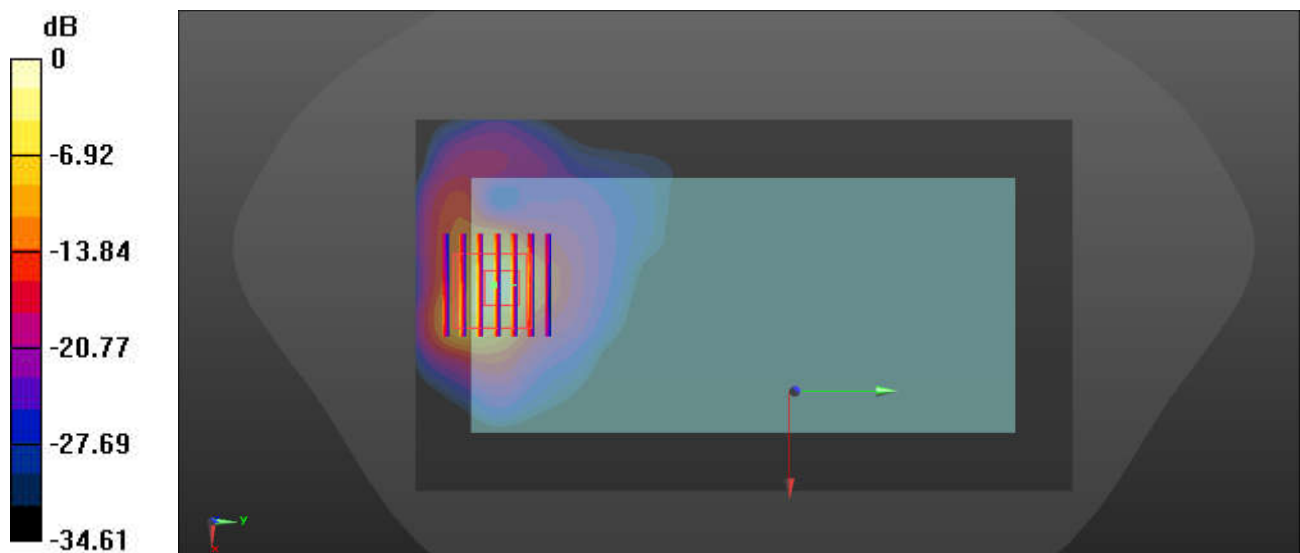
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

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

Peak SAR (extrapolated) = 40.0 W/kg

SAR(1 g) = 7.79 W/kg; SAR(10 g) = 2.36 W/kg

Maximum value of SAR (measured) = 22.3 W/kg



0 dB = 22.3 W/kg = 13.48 dBW/kg

85_LTE Band 42_20M_QPSK_1RB_0Offset_Left Side_0mm_Ch42190

Communication System: UID 0, LTE-TDD (0); Frequency: 3460 MHz; Duty Cycle: 1:1.59

Medium: HSL_3500 Medium parameters used: $f = 3460$ MHz; $\sigma = 2.747$ S/m; $\epsilon_r = 38.981$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(6.69, 6.69, 6.69); Calibrated: 2021/6/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2021/9/21
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (61x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 13.5 W/kg

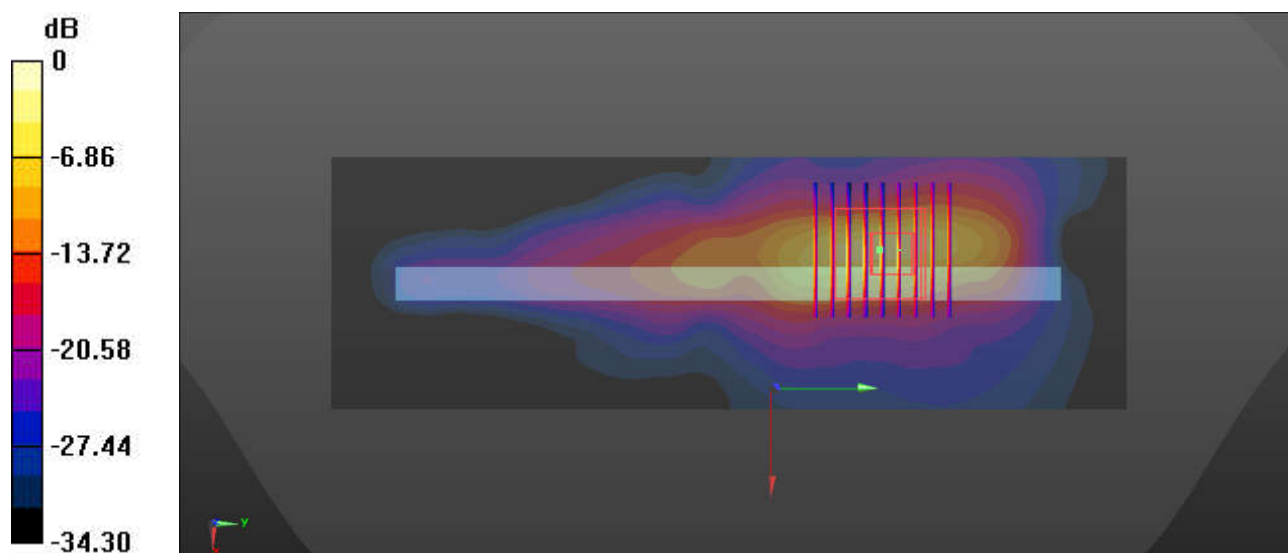
Zoom Scan (9x9x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 22.51 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 59.6 W/kg

SAR(1 g) = 9.43 W/kg; SAR(10 g) = 2.13 W/kg

Maximum value of SAR (measured) = 29.1 W/kg



0 dB = 29.1 W/kg = 14.64 dBW/kg

86_FR1 n77-Part27Q_100M_QPSK_1RB_1Offset_Left Side_0mm_Ch633334

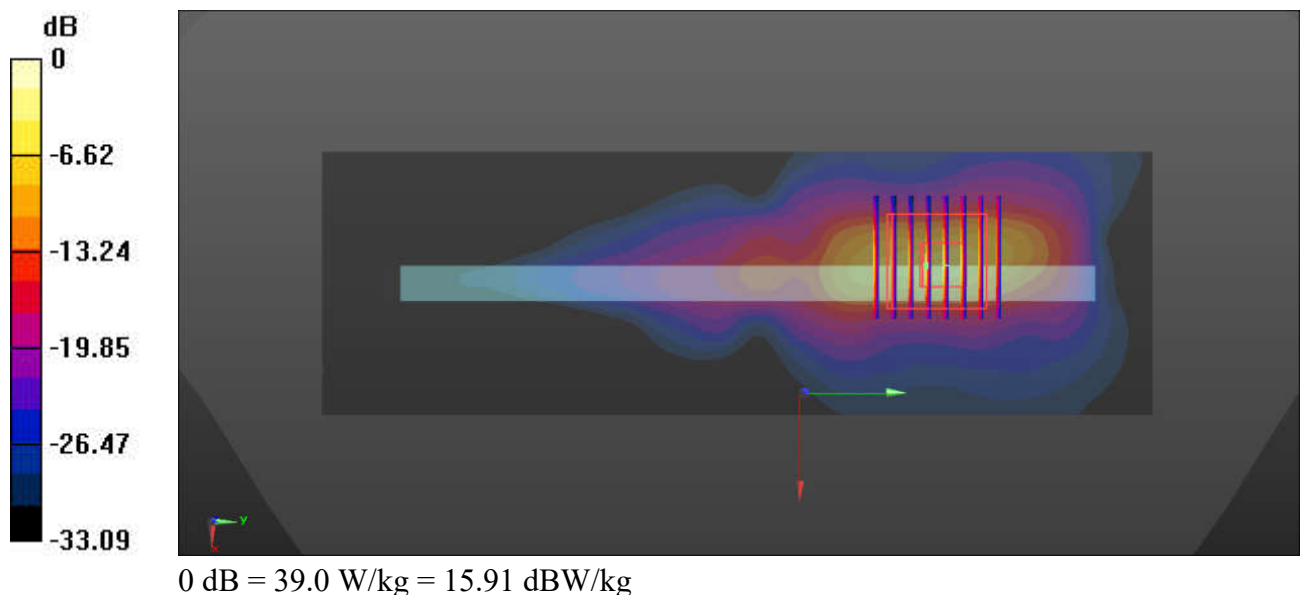
Communication System: UID 0, 5G NR (0); Frequency: 3500.01 MHz; Duty Cycle: 1:1
Medium: HSL_3500 Medium parameters used: $f = 3500.01$ MHz; $\sigma = 2.784$ S/m; $\epsilon_r = 38.912$; $\rho = 1000$ kg/m³
Ambient Temperature : 23.3 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(6.69, 6.69, 6.69); Calibrated: 2021/6/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2021/9/21
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (61x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 11.9 W/kg

Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 23.61 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 83.8 W/kg
SAR(1 g) = 10.7 W/kg; SAR(10 g) = 2.56 W/kg
Maximum value of SAR (measured) = 39.0 W/kg



87_FR1 n78 Part27Q_100M_QPSK_135RB_69Offset_Left Side_0mm_Ch633334

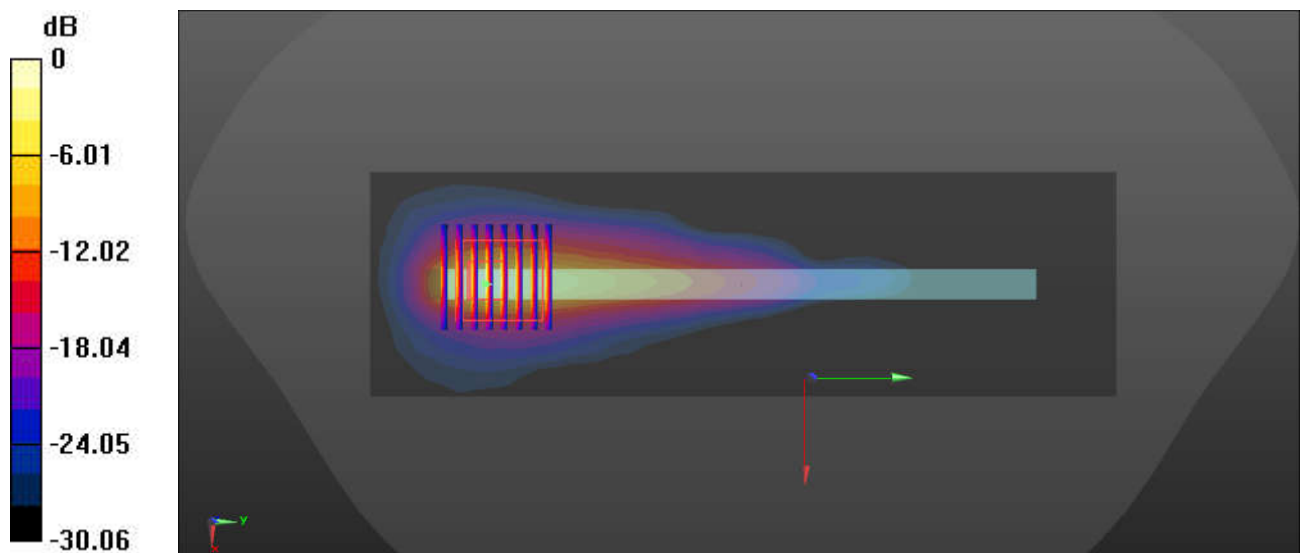
Communication System: UID 0, 5G NR (0); Frequency: 3500.01 MHz; Duty Cycle: 1:1
Medium: HSL_3500 Medium parameters used: $f = 3500.01$ MHz; $\sigma = 2.784$ S/m; $\epsilon_r = 38.912$; $\rho = 1000$ kg/m³
Ambient Temperature : 23.3 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(6.69, 6.69, 6.69); Calibrated: 2021/6/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2021/9/21
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (61x201x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 23.3 W/kg

Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 8.996 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 42.7 W/kg
SAR(1 g) = 8.12 W/kg; SAR(10 g) = 2.12 W/kg
Maximum value of SAR (measured) = 22.1 W/kg



0 dB = 22.1 W/kg = 13.44 dBW/kg

88_WLAN5GHz_802.11a 6Mbps_Top Side_0mm_Ch60

Communication System: UID 0, WLAN5GHz (0); Frequency: 5300 MHz; Duty Cycle: 1:1.112
Medium: HSL_5000 Medium parameters used: $f = 5300$ MHz; $\sigma = 4.591$ S/m; $\epsilon_r = 36.072$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(5.38, 5.38, 5.38); Calibrated: 2021/6/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2021/9/21
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

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

Maximum value of SAR (interpolated) = 6.00 W/kg

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

Reference Value = 0.7220 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 15.7 W/kg

SAR(1 g) = 2.59 W/kg; SAR(10 g) = 0.702 W/kg

Maximum value of SAR (measured) = 7.60 W/kg

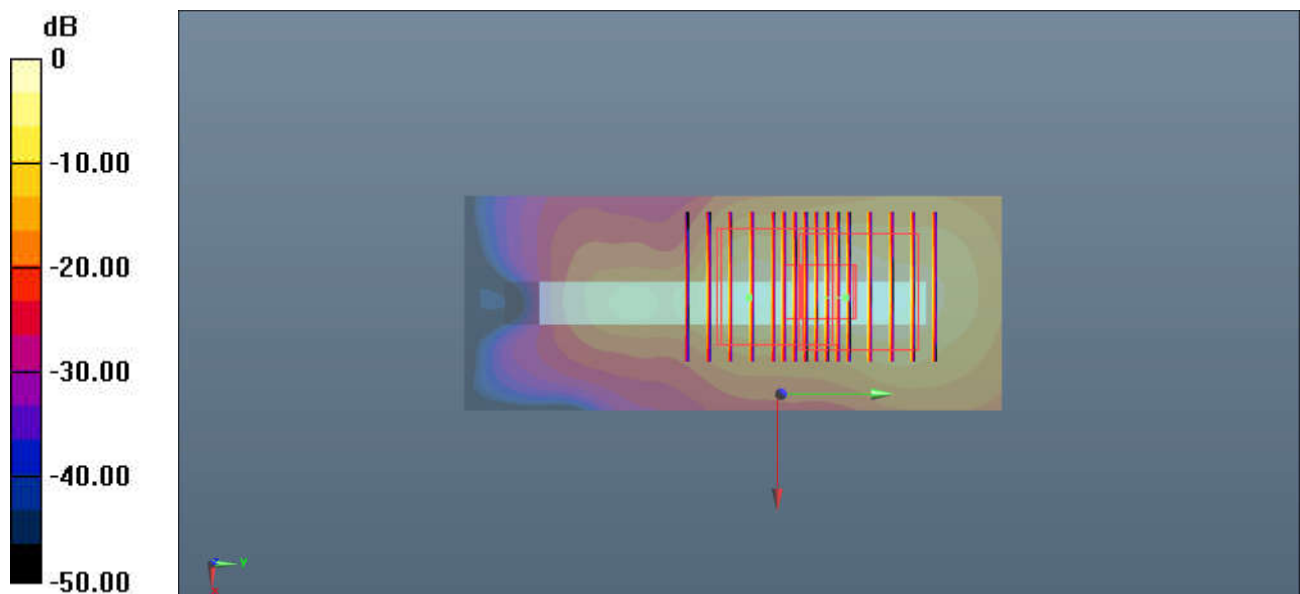
Zoom Scan (8x8x7)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 0.7220 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 16.0 W/kg

SAR(1 g) = 2.32 W/kg; SAR(10 g) = 0.530 W/kg

Maximum value of SAR (measured) = 7.10 W/kg



0 dB = 7.10 W/kg = 8.51 dBW/kg

89_WLAN5GHz_802.11ac-VHT40 MCS0_Top Side_0mm_Ch142

Communication System: UID 0, WLAN5GHz (0); Frequency: 5710 MHz; Duty Cycle: 1:1.129

Medium: HSL_5000 Medium parameters used: $f = 5710$ MHz; $\sigma = 5.054$ S/m; $\epsilon_r = 35.433$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(4.82, 4.82, 4.82); Calibrated: 2021/6/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2021/9/21
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

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

Maximum value of SAR (interpolated) = 8.57 W/kg

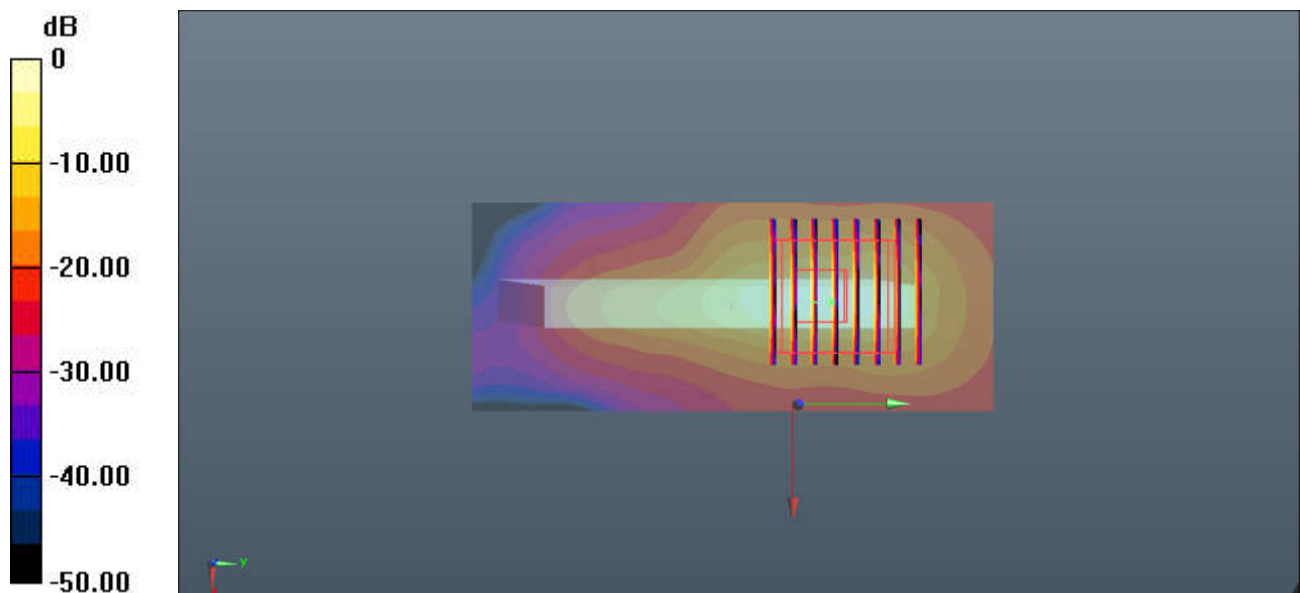
Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 1.477 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 29.0 W/kg

SAR(1 g) = 3.97 W/kg; SAR(10 g) = 0.991 W/kg

Maximum value of SAR (measured) = 12.5 W/kg



0 dB = 12.5 W/kg = 10.97 dBW/kg

90_WLAN5GHz_802.11ac-VHT40 MCS0_Top Side_0mm_Ch159

Communication System: UID 0, WLAN5GHz (0); Frequency: 5795 MHz; Duty Cycle: 1:1.129

Medium: HSL_5000 Medium parameters used: $f = 5795$ MHz; $\sigma = 5.312$ S/m; $\epsilon_r = 34.347$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(4.82, 4.82, 4.82); Calibrated: 2021/6/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2021/9/21
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (61x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 15.7 W/kg

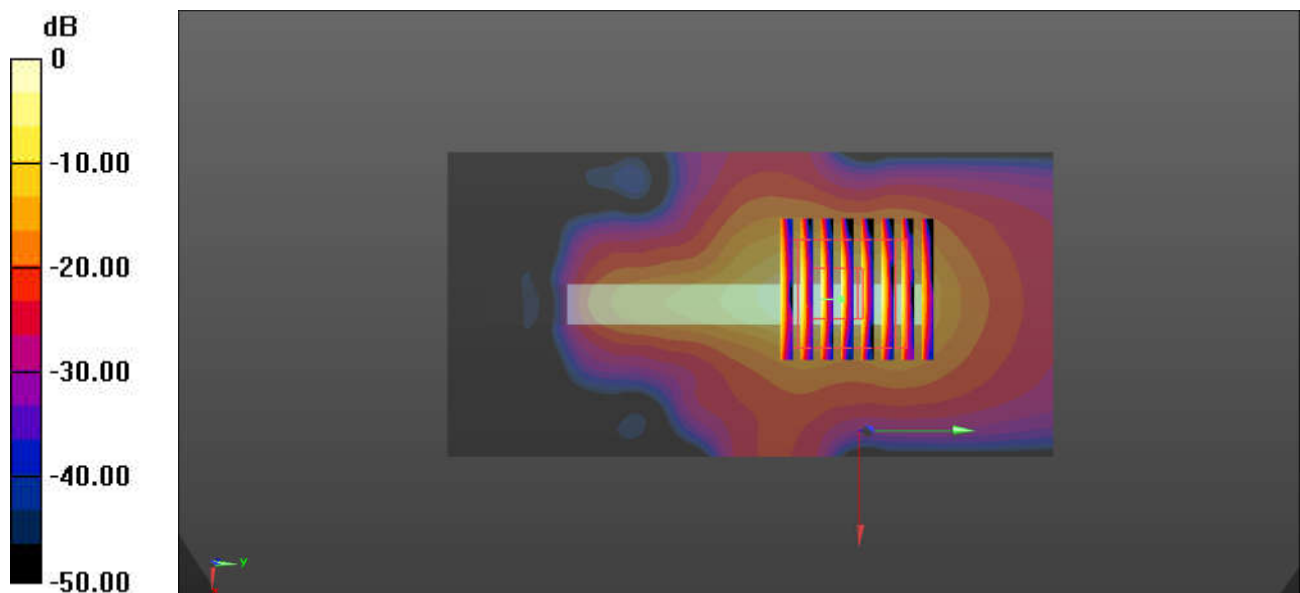
Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 18.41 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 47.4 W/kg

SAR(1 g) = 6.15 W/kg; SAR(10 g) = 1.53 W/kg

Maximum value of SAR (measured) = 18.6 W/kg





Appendix C. DASY Calibration Certificate

The DASY calibration certificates are shown as follows.



Accredited by the Swiss Accreditation Service (SAS)
The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Client **Sporton**

Certificate No: **D750V3-1087_Feb22**

CALIBRATION CERTIFICATE

Object **D750V3 - SN:1087**

Calibration procedure(s) **QA CAL-05.v11
Calibration Procedure for SAR Validation Sources between 0.7-3 GHz**

Calibration date: **February 24, 2022**

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 $(22 \pm 3)^{\circ}\text{C}$ and humidity $< 70\%$.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	09-Apr-21 (No. 217-03291/03292)	Apr-22
Power sensor NRP-Z91	SN: 103244	09-Apr-21 (No. 217-03291)	Apr-22
Power sensor NRP-Z91	SN: 103245	09-Apr-21 (No. 217-03292)	Apr-22
Reference 20 dB Attenuator	SN: BH9394 (20k)	09-Apr-21 (No. 217-03343)	Apr-22
Type-N mismatch combination	SN: 310982 / 06327	09-Apr-21 (No. 217-03344)	Apr-22
Reference Probe EX3DV4	SN: 7349	31-Dec-21 (No. EX3-7349_Dec21)	Dec-22
DAE4	SN: 601	01-Nov-21 (No. DAE4-601_Nov21)	Nov-22
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB39512475	30-Oct-14 (in house check Oct-20)	In house check: Oct-22
Power sensor HP 8481A	SN: US37292783	07-Oct-15 (in house check Oct-20)	In house check: Oct-22
Power sensor HP 8481A	SN: MY41093315	07-Oct-15 (in house check Oct-20)	In house check: Oct-22
RF generator R&S SMT-06	SN: 100972	15-Jun-15 (in house check Oct-20)	In house check: Oct-22
Network Analyzer Agilent E8358A	SN: US41080477	31-Mar-14 (in house check Oct-20)	In house check: Oct-22

Calibrated by: **Joanna Lleshaj** **Laboratory Technician**

Approved by: **Niels Kuster** **Quality Manager**

Issued: March 2, 2022

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



Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

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:

- a) IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices - Part 1528: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)", October 2020.
- b) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

- c) DASY 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 source is mounted in a touch configuration below the center marking of the flat phantom.
- *Return Loss:* This parameter is measured with the source positioned under the liquid filled phantom (as described in the measurement condition clause). The Return Loss ensures low reflected power. 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%.

Measurement Conditions

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

DASY Version	DASY52	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	15 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	750 MHz $\pm$ 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	41.9	0.89 mho/m
Measured Head TSL parameters	(22.0 $\pm$ 0.2) °C	42.4 $\pm$ 6 %	0.89 mho/m $\pm$ 6 %
Head TSL temperature change during test	< 0.5 °C	----	----

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	2.14 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	8.58 W/kg $\pm$ 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	1.41 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	5.65 W/kg $\pm$ 16.5 % (k=2)

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	52.6 Ω - 2.5 j Ω
Return Loss	- 29.1 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.034 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

Manufactured by	SPEAG
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DASY5 Validation Report for Head TSL

Date: 24.02.2022

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3 - SN:1087

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

Medium parameters used: $f = 750$ MHz; $\sigma = 0.89$ S/m; $\epsilon_r = 42.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 - SN7349; ConvF(10.11, 10.11, 10.11) @ 750 MHz; Calibrated: 31.12.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 01.11.2021
- Phantom: Flat Phantom 4.9 (front); Type: QD 00L P49 AA; Serial: 1001
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration for Head Tissue/Pin=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 59.64 V/m; Power Drift = -0.03 dB

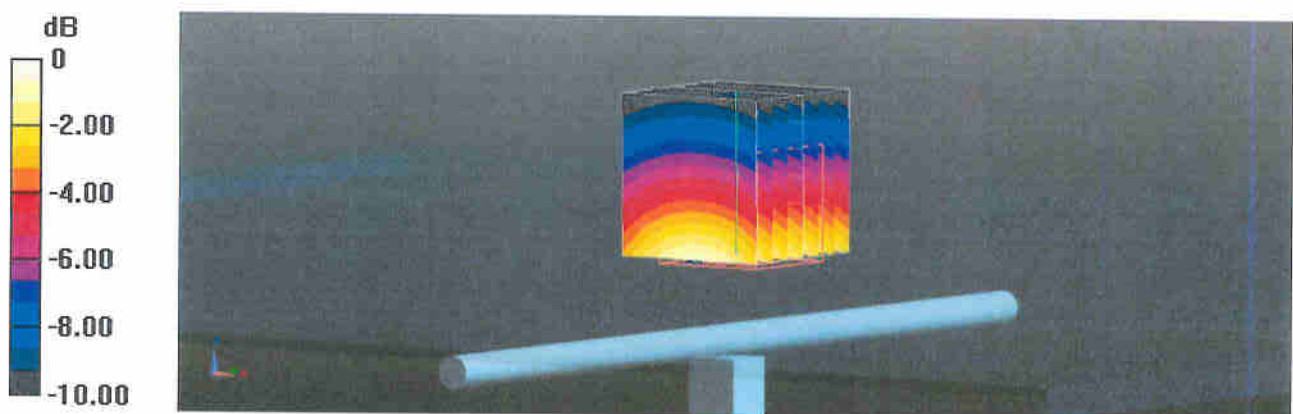
Peak SAR (extrapolated) = 3.22 W/kg

SAR(1 g) = 2.14 W/kg; SAR(10 g) = 1.41 W/kg

Smallest distance from peaks to all points 3 dB below = 17 mm

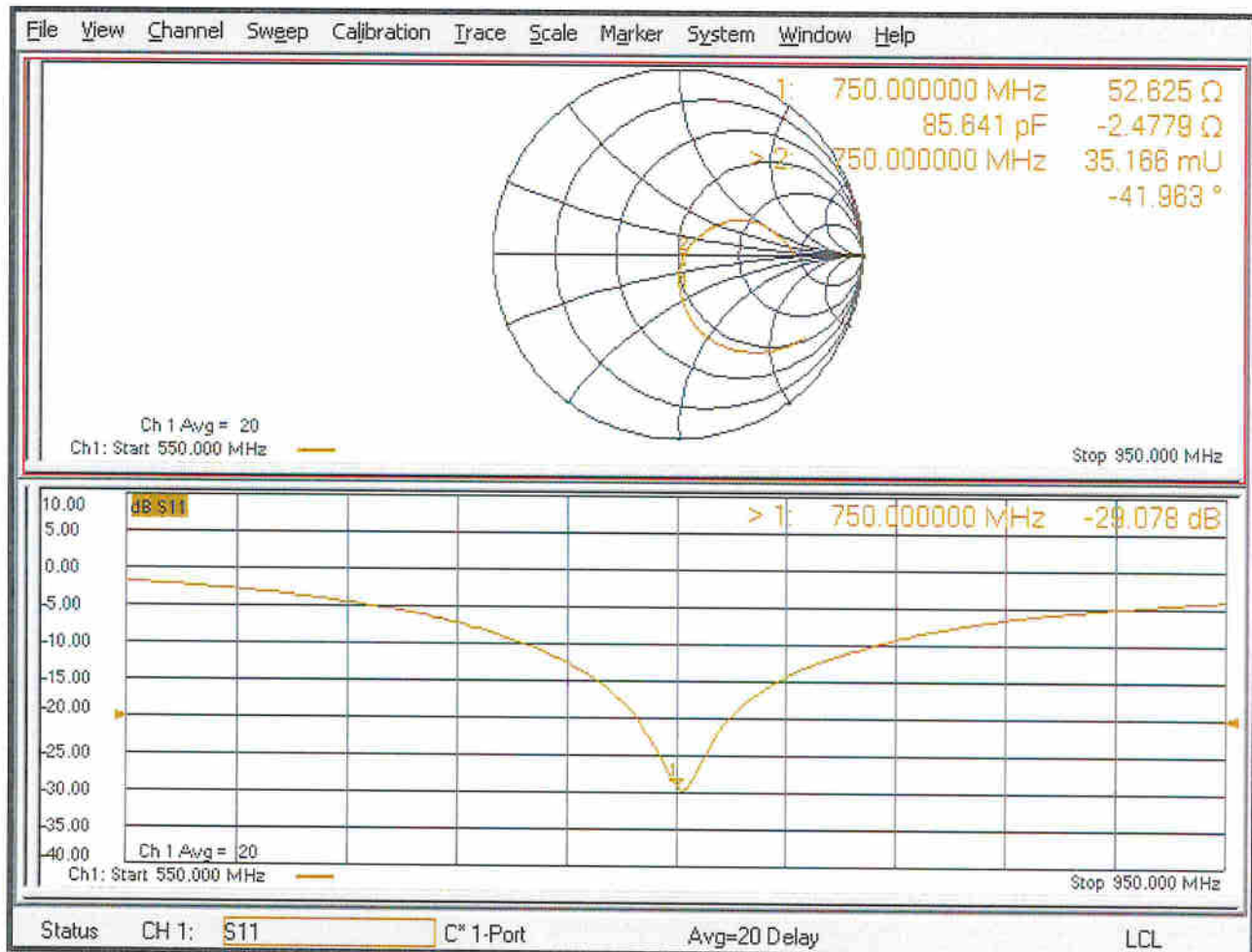
Ratio of SAR at M2 to SAR at M1 = 66.5%

Maximum value of SAR (measured) = 2.83 W/kg



0 dB = 2.83 W/kg = 4.52 dBW/kg

Impedance Measurement Plot for Head TSL





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

Client

Sporton

Certificate No: Z21-60551

CALIBRATION CERTIFICATE

Object

D835V2 - SN: 4d162

Calibration Procedure(s)

FF-Z11-003-01

Calibration Procedures for dipole validation kits

Calibration date:

December 17, 2021

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 $(22 \pm 3)^{\circ}\text{C}$ 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	24-Sep-21 (CTTL, No.J21X08326)	Sep-22
Power sensor NRP8S	104291	24-Sep-21 (CTTL, No.J21X08326)	Sep-22
Reference Probe EX3DV4	SN 7307	26-May-21(SPEAG,No.EX3-7307_May21)	May-22
DAE4	SN 1556	15-Jan-21(SPEAG,No.DAE4-1556_Jan21)	Jan-22
Secondary Standards	ID #	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Signal Generator E4438C	MY49071430	01-Feb-21 (CTTL, No.J21X00593)	Jan-22
NetworkAnalyzer E5071C	MY46110673	14-Jan-21 (CTTL, No.J21X00232)	Jan-22

	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: December 24, 2021

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