



REPORT No. : SZ18090036S02

Annex D Plots of Maximum SAR Test Results

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MORLAB

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GSM850_GPRS(4 TX slots)_Right Cheek_Ch251

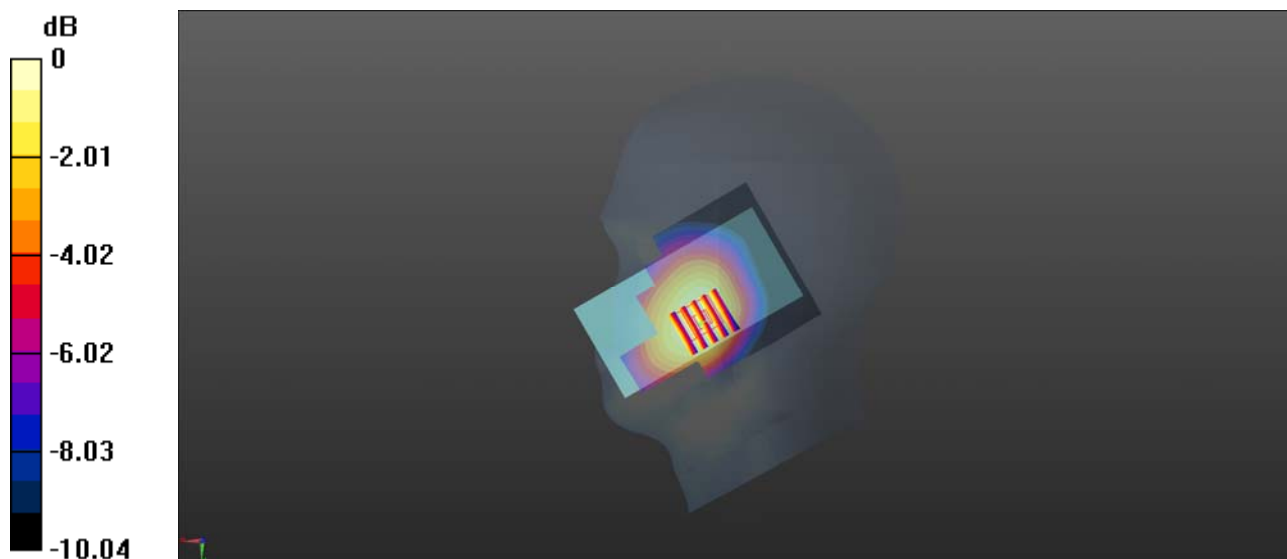
Communication System: UID 0, GSM850(class 12) (0); Frequency: 848.8 MHz;Duty Cycle: 1:2.08
Medium: HSL_835_180905 Medium parameters used: $f = 849$ MHz; $\sigma = 0.935$ S/m; $\epsilon_r = 42.132$; $\rho = 1000$ kg/m³
Ambient Temperature : 23.2 °C; Liquid Temperature : 22.3 °C

DASY5 Configuration:

- Probe: ES3DV3 - SN3154; ConvF(6.26, 6.26, 6.26); Calibrated: 2017.10.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn480; Calibrated: 2017.09.27
- Phantom: SAM 1; Type: QD000P40CC; Serial: TP:1471
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch251/Area Scan (71x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.241 W/kg

Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 3.243 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.287 W/kg
SAR(1 g) = 0.224 W/kg; SAR(10 g) = 0.167 W/kg
Maximum value of SAR (measured) = 0.234 W/kg



0 dB = 0.241 W/kg

GSM1900_GPRS(4 TX slots)_Left Cheek_Ch512

Communication System: UID 0, PCS1900(class 12) (0); Frequency: 1850.2 MHz; Duty Cycle: 1:2.08
 Medium: HSL_1900_180905 Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.407$ S/m; $\epsilon_r = 41.075$;

$\rho = 1000$ kg/m³

Ambient Temperature : 23.1 °C; Liquid Temperature : 22.2 °C

DASY5 Configuration:

- Probe: ES3DV3 - SN3154; ConvF(4.98, 4.98, 4.98); Calibrated: 2017.10.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn480; Calibrated: 2017.09.27
- Phantom: SAM 2; Type: QD000P40CC; Serial: TP:1464
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch512/Area Scan (71x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.303 W/kg

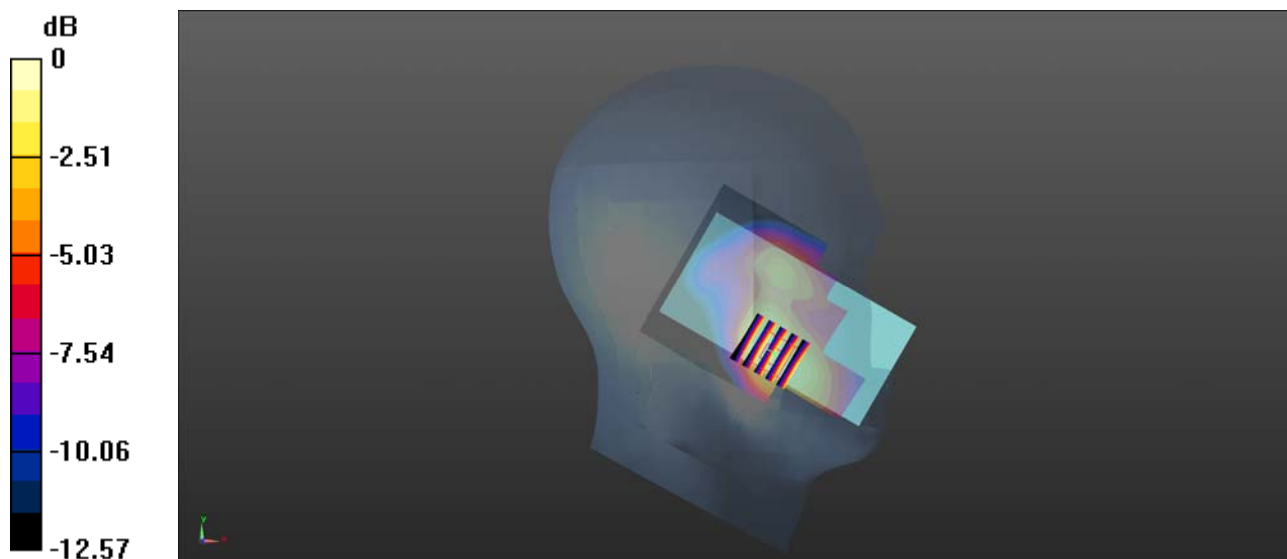
Ch512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.975 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.468 W/kg

SAR(1 g) = 0.278 W/kg; SAR(10 g) = 0.162 W/kg

Maximum value of SAR (measured) = 0.299 W/kg



0 dB = 0.303 W/kg

LTE Band 5_10MHz_QPSK_1RB_0Offset_Right Cheek_Ch20525

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

Medium: HSL_835_180905 Medium parameters used: $f = 836.5$ MHz; $\sigma = 0.924$ S/m; $\epsilon_r = 42.259$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.3 °C

DASY5 Configuration:

- Probe: ES3DV3 - SN3154; ConvF(6.26, 6.26, 6.26); Calibrated: 2017.10.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn480; Calibrated: 2017.09.27
- Phantom: SAM 1; Type: QD000P40CC; Serial: TP:1471
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 0.151 W/kg

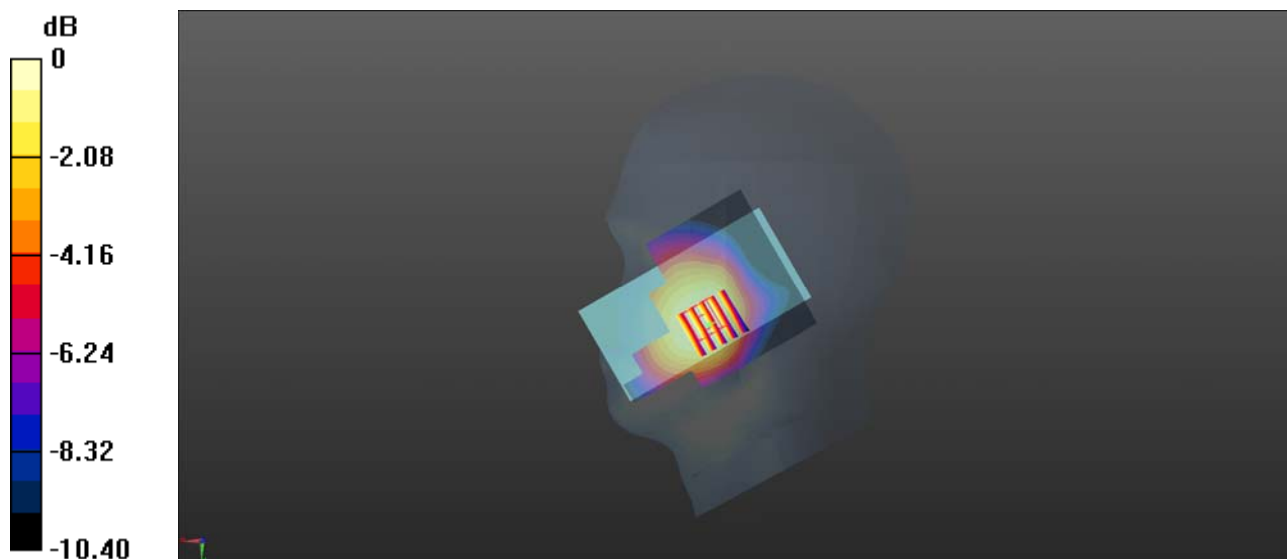
Ch20525/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.745 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.177 W/kg

SAR(1 g) = 0.140 W/kg; SAR(10 g) = 0.108 W/kg

Maximum value of SAR (measured) = 0.146 W/kg



0 dB = 0.151 W/kg

WLAN 2.4GHz_802.11b 1Mbps_Left Tilt_Ch6

Communication System: UID 0, WLAN 2.4GHz 802.11b (0); Frequency: 2437 MHz; Duty Cycle: 1:1
Medium: HSL_2450_181024 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.845$ S/m; $\epsilon_r = 37.968$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.5 °C

DASY5 Configuration:

- Probe: EX3DV3 - SN3154; ConvF(6.26, 6.26, 6.26), Calibrated: 2017.07.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1516; Calibrated: 2018.07.14
- Phantom: SAM 1; Type: QD000P40CC; Serial: TP:1471
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch6/Area Scan (81x11x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.996 W/kg

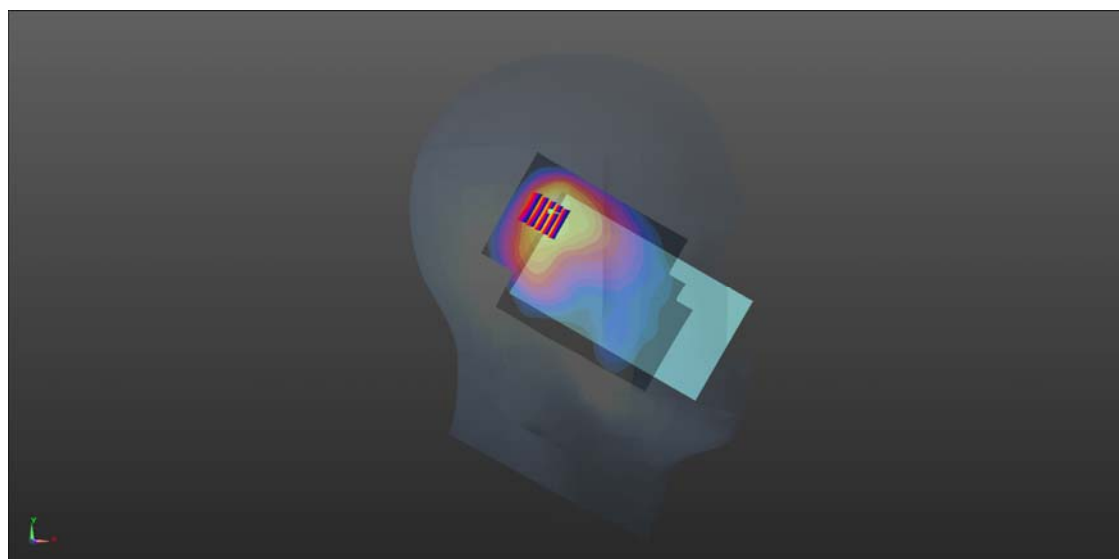
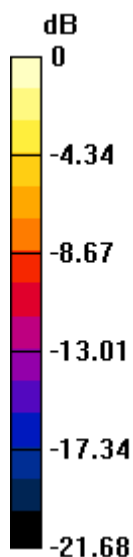
Ch6/Zoom Scan (5x5x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.79 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 2.40 W/kg

SAR(1 g) = 0.836 W/kg; SAR(10 g) = 0.356 W/kg

Maximum value of SAR (measured) = 0.952 W/kg



0 dB = 0.996 W/kg

GSM850_GPRS(4 TX slots)_Back Side_10mm_Ch251

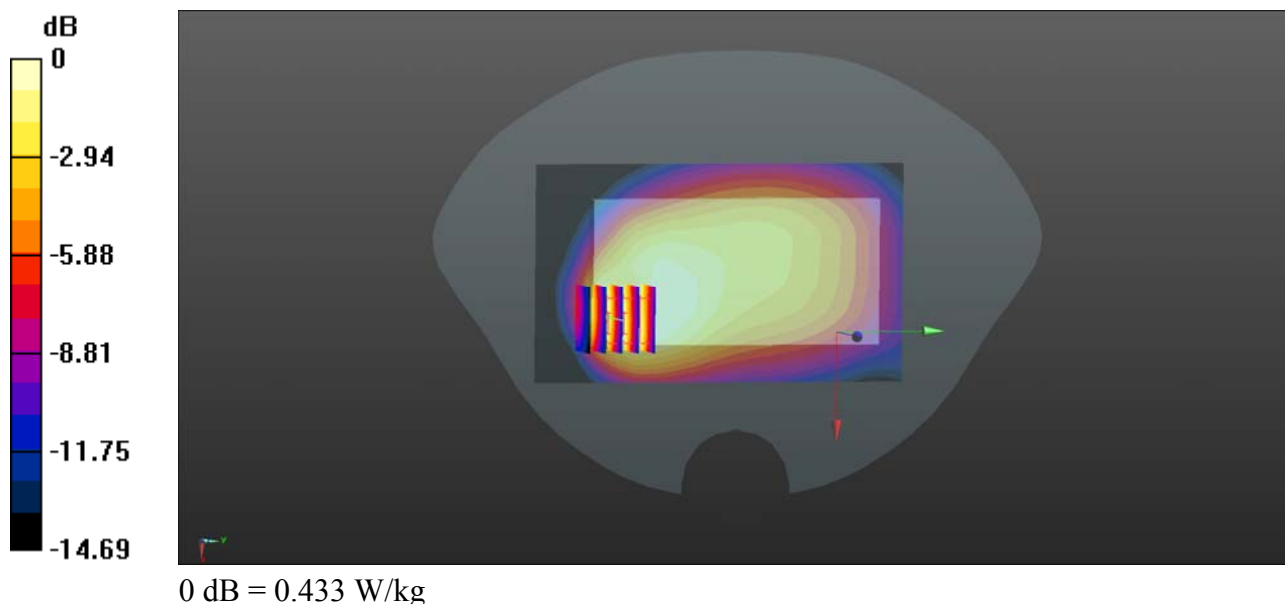
Communication System: UID 0, GSM850(class 12) (0); Frequency: 848.8 MHz;Duty Cycle: 1:2.08
 Medium: MSL_835_180907 Medium parameters used: $f = 849$ MHz; $\sigma = 0.945$ S/m; $\epsilon_r = 53.946$; $\rho = 1000$ kg/m³
 Ambient Temperature : 23.1 °C; Liquid Temperature : 22.5 °C

DASY5 Configuration:

- Probe: ES3DV3 - SN3154; ConvF(6.22, 6.22, 6.22); Calibrated: 2017.10.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn480; Calibrated: 2017.09.27
- Phantom: SAM 1; Type: QD000P40CC; Serial: TP:1471
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch251/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Maximum value of SAR (interpolated) = 0.433 W/kg

Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
 Reference Value = 16.86 V/m; Power Drift = -0.01 dB
 Peak SAR (extrapolated) = 0.665 W/kg
SAR(1 g) = 0.381 W/kg; SAR(10 g) = 0.230 W/kg
 Maximum value of SAR (measured) = 0.420 W/kg



GSM1900_GPRS(4 TX slots)_Back Side_10mm_Ch512

Communication System: UID 0, PCS1900(class 12) (0); Frequency: 1850.2 MHz; Duty Cycle: 1:4.15
Medium: MSL_1900_180907 Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.475$ S/m; $\epsilon_r = 52.577$;

$\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.1 °C

DASY5 Configuration:

- Probe: ES3DV3 - SN3154; ConvF(4.71, 4.71, 4.71); Calibrated: 2017.10.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn480; Calibrated: 2017.09.27
- Phantom: SAM 2; Type: QD000P40CC; Serial: TP:1464
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch512/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.605 W/kg

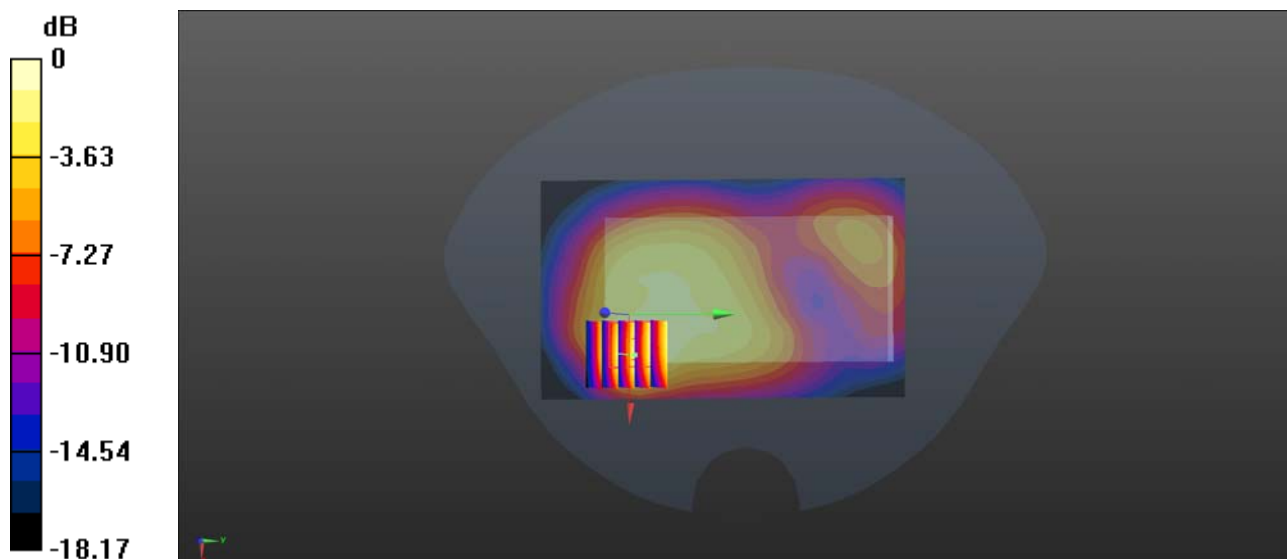
Ch512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.42 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.01 W/kg

SAR(1 g) = 0.547 W/kg; SAR(10 g) = 0.307 W/kg

Maximum value of SAR (measured) = 0.595 W/kg



0 dB = 0.605 W/kg

LTE Band 5_10MHz_QPSK_1RB_0Offset_Back Side_10mm_Ch20525

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

Medium: MSL_835_180907 Medium parameters used: $f = 836.5$ MHz; $\sigma = 0.947$ S/m; $\epsilon_r = 54.315$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.1 °C; Liquid Temperature : 22.5 °C

DASY5 Configuration:

- Probe: ES3DV3 - SN3154; ConvF(6.22, 6.22, 6.22); Calibrated: 2017.10.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn480; Calibrated: 2017.09.27
- Phantom: SAM 1; Type: QD000P40CC; Serial: TP:1471
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 0.247 W/kg

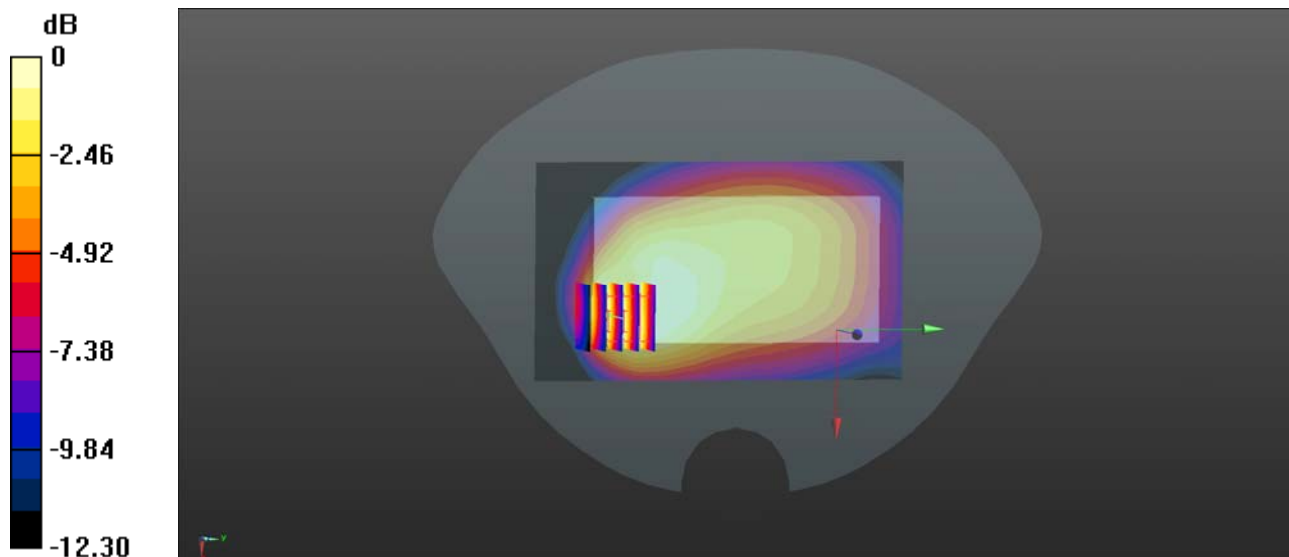
Ch20525/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.92 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.319 W/kg

SAR(1 g) = 0.234 W/kg; SAR(10 g) = 0.172 W/kg

Maximum value of SAR (measured) = 0.247 W/kg



0 dB = 0.247 W/kg

WLAN 2.4GHz_802.11b 1Mbps_Top Side_10mm_Ch6

Communication System: UID 0, WLAN 2.4GHz 802.11b (0); Frequency: 2437 MHz; Duty Cycle: 1:1
Medium: MSL_2450_181022 Medium parameters used: $f = 2437$ MHz; $\sigma = 2.019$ S/m; $\epsilon_r = 50.692$; $\rho = 1000$ kg/m³

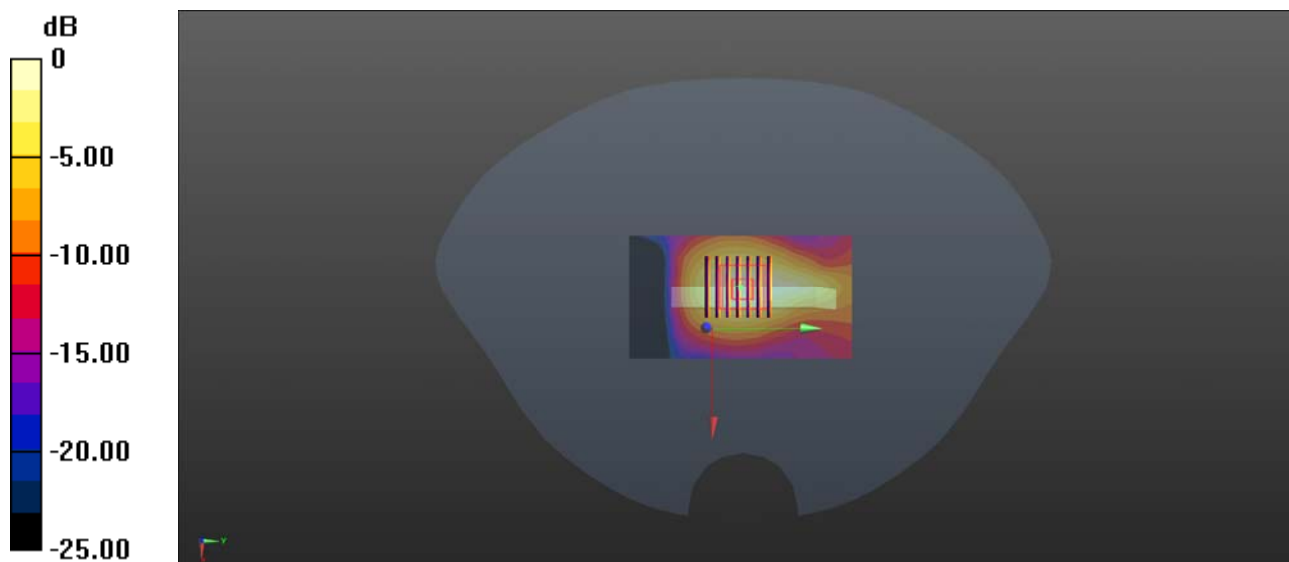
Ambient Temperature : 23.2 °C; Liquid Temperature : 22.1 °C

DASY5 Configuration:

- Probe: EX3DV3 - SN3154; ConvF(6.26, 6.26, 6.26), Calibrated: 2017.07.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1516; Calibrated: 2018.07.14
- Phantom: SAM 1; Type: QD000P40CC; Serial: TP:1471
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch6/Area Scan (51x91x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.361 W/kg

Ch6/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 12.63 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 0.730 W/kg
SAR(1 g) = 0.320 W/kg; SAR(10 g) = 0.148 W/kg
Maximum value of SAR (measured) = 0.353 W/kg



0 dB = 0.361 W/kg