

18. References

- [1] FCC 47 CFR Part 2 "Frequency Allocations and Radio Treaty Matters; General Rules and Regulations"
- [2] ANSI/IEEE Std. C95.1-1992, "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz", September 1992
- [3] IEEE Std. 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", Sep 2013
- [4] SPEAG DASY System Handbook
- [5] FCC KDB 865664 D01 v01r04, "SAR Measurement Requirements for 100 MHz to 6 GHz", Aug 2015.
- [6] FCC KDB 865664 D02 v01r02, "RF Exposure Compliance Reporting and Documentation Considerations" Oct 2015.
- [7] FCC KDB 447498 D01 v06, "Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies", Oct 2015
- [8] FCC KDB 648474 D04 v01r03, "SAR Evaluation Considerations for Wireless Handsets", Oct 2015.
- [9] FCC KDB 248227 D01 v02r02, "SAR Guidance for IEEE 802.11 (WiFi) Transmitters", Oct 2015.
- [10] FCC KDB 941225 D01 v03r01, "3G SAR MEAUREMENT PROCEDURES", Oct 2015
- [11] FCC KDB 941225 D05 v02r05, "SAR Evaluation Considerations for LTE Devices", Dec 2015
- [12] FCC KDB 941225 D05A v01r02, "Rel. 10 LTE SAR Test Guidance and KDB Inquiries", Oct 2015
- [13] FCC KDB 941225 D06 v02r01, "SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities", Oct 2015.

18. References

- [1] FCC 47 CFR Part 2 "Frequency Allocations and Radio Treaty Matters; General Rules and Regulations"
- [2] ANSI/IEEE Std. C95.1-1992, "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz", September 1992
- [3] IEEE Std. 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", Sep 2013
- [4] SPEAG DASY System Handbook
- [5] FCC KDB 865664 D01 v01r04, "SAR Measurement Requirements for 100 MHz to 6 GHz", Aug 2015.
- [6] FCC KDB 865664 D02 v01r02, "RF Exposure Compliance Reporting and Documentation Considerations" Oct 2015.
- [7] FCC KDB 447498 D01 v06, "Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies", Oct 2015
- [8] FCC KDB 648474 D04 v01r03, "SAR Evaluation Considerations for Wireless Handsets", Oct 2015.
- [9] FCC KDB 248227 D01 v02r02, "SAR Guidance for IEEE 802.11 (WiFi) Transmitters", Oct 2015.
- [10] FCC KDB 941225 D01 v03r01, "3G SAR MEAUREMENT PROCEDURES", Oct 2015
- [11] FCC KDB 941225 D05 v02r05, "SAR Evaluation Considerations for LTE Devices", Dec 2015
- [12] FCC KDB 941225 D05A v01r02, "Rel. 10 LTE SAR Test Guidance and KDB Inquiries", Oct 2015
- [13] FCC KDB 941225 D06 v02r01, "SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities", Oct 2015.



Appendix A. Plots of System Performance Check

The plots are shown as follows.

System Check_Head_750MHz_20180227

DUT: D750V3 SN:1087

Communication System: UID 0, CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: HSL_750_Medium parameters used: $f = 750$ MHz; $\sigma = 0.893$ S/m; $\epsilon_r = 41.983$; $\rho = 1000$ kg/m³

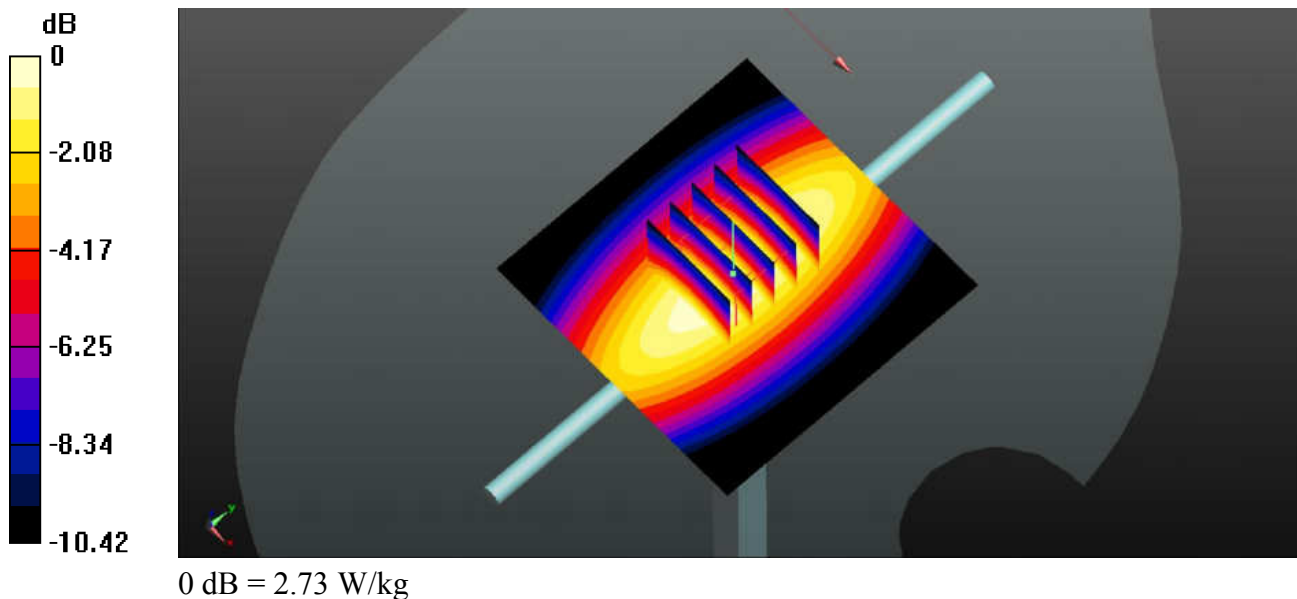
Ambient Temperature : 23.5 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3935; ConvF(10.68, 10.68, 10.68); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 2.76 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 55.54 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 3.05 W/kg
SAR(1 g) = 2.08 W/kg; SAR(10 g) = 1.37 W/kg
Maximum value of SAR (measured) = 2.73 W/kg



System Check_Head_835MHz_20180217

DUT: D835V2 SN:4d151

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

Medium: HSL_835_Medium parameters used: $f = 835$ MHz; $\sigma = 0.907$ S/m; $\epsilon_r = 42.336$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3935; ConvF(10.36, 10.36, 10.36); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 3.36 W/kg

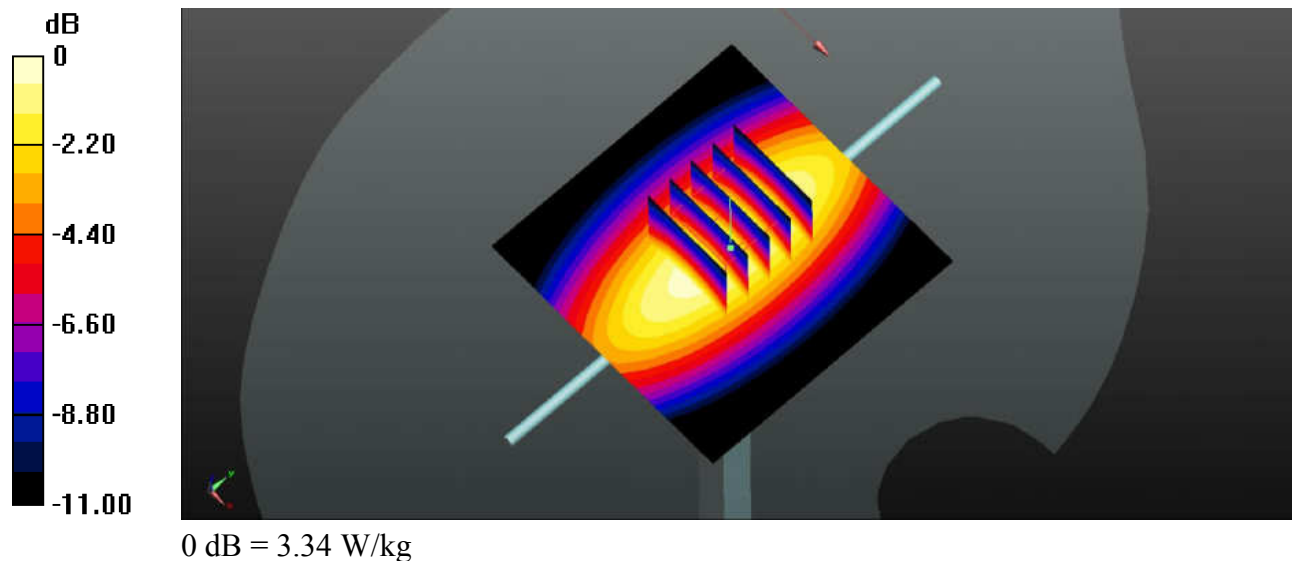
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 55.63 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 3.86 W/kg

SAR(1 g) = 2.43 W/kg; SAR(10 g) = 1.58 W/kg

Maximum value of SAR (measured) = 3.34 W/kg



System Check_Head_1750MHz_20180221

DUT: D1750V2 SN:1090

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

Medium: HSL_1750_Medium parameters used: $f = 1750$ MHz; $\sigma = 1.375$ S/m; $\epsilon_r = 41.37$; $\rho = 1000$ kg/m³

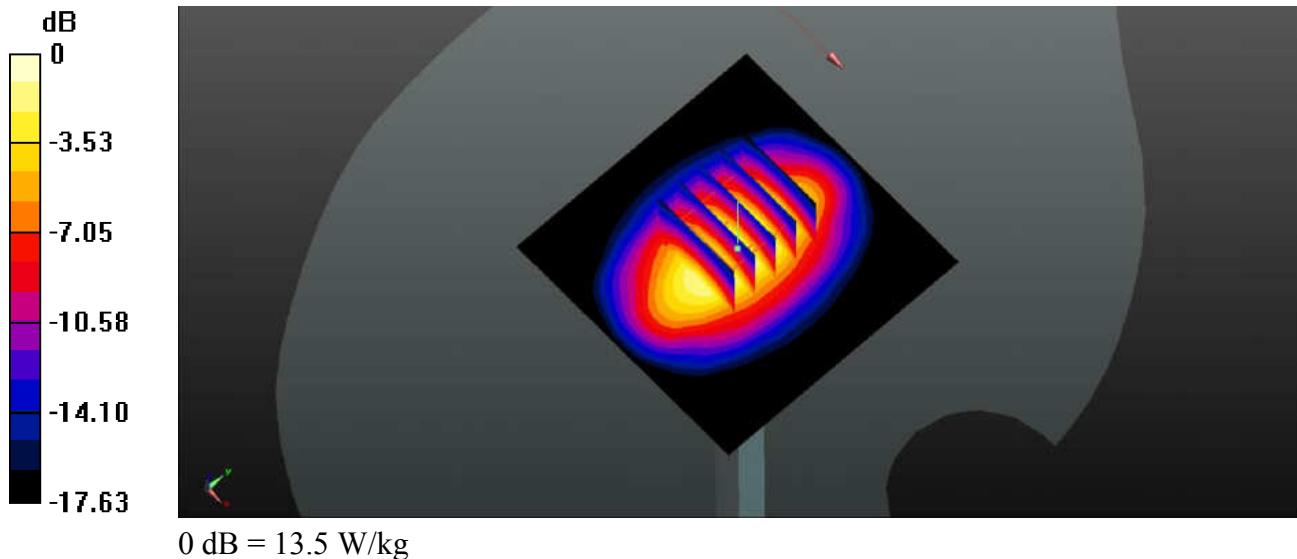
Ambient Temperature : 23.5 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3935; ConvF(8.85, 8.85, 8.85); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 13.5 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 95.20 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 16.2 W/kg
SAR(1 g) = 8.7 W/kg; SAR(10 g) = 4.58 W/kg
Maximum value of SAR (measured) = 13.5 W/kg



System Check_Head_1900MHz_20180222

DUT: D1900V2 SN:5d170

Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL_1900_Medium parameters used: $f = 1900$ MHz; $\sigma = 1.464$ S/m; $\epsilon_r = 39.144$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C; Liquid Temperature : 22.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3935; ConvF(8.41, 8.41, 8.41); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 16.1 W/kg

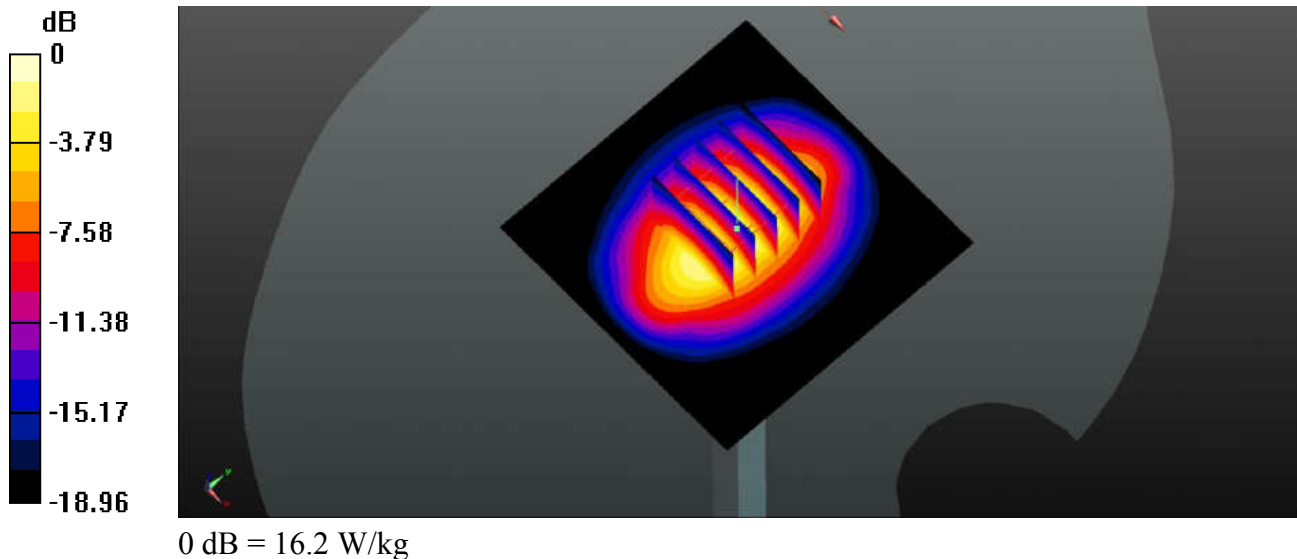
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 100.6 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 19.5 W/kg

SAR(1 g) = 10.3 W/kg; SAR(10 g) = 5.27 W/kg

Maximum value of SAR (measured) = 16.2 W/kg



System Check_Head_2600MHz_20180221

DUT: D2600V2 SN:1112

Communication System: UID 0, CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: HSL_2600_Medium parameters used: $f = 2600$ MHz; $\sigma = 2.038$ S/m; $\epsilon_r = 39.034$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3 °C ; Liquid Temperature : 22.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3935; ConvF(7.67, 7.67, 7.67); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Pin=250mW/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

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

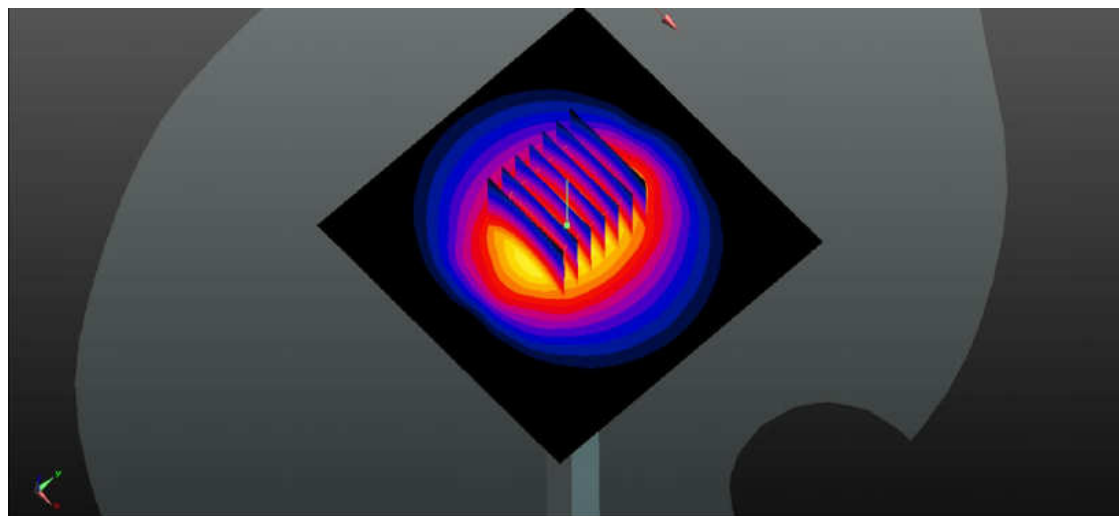
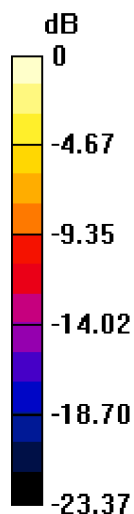
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 87.44 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 30.8 W/kg

SAR(1 g) = 14.2 W/kg; SAR(10 g) = 6.27 W/kg

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



0 dB = 22.3 W/kg

System Check_Body_750MHz_20180227

DUT: D750V3 SN:1087

Communication System: UID 0, CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: MSL_750_Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.959 \text{ S/m}$; $\epsilon_r = 56.966$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : $23.6 \text{ }^\circ\text{C}$; Liquid Temperature : $22.4 \text{ }^\circ\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN3935; ConvF(10.65, 10.65, 10.65); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 2.97 W/kg

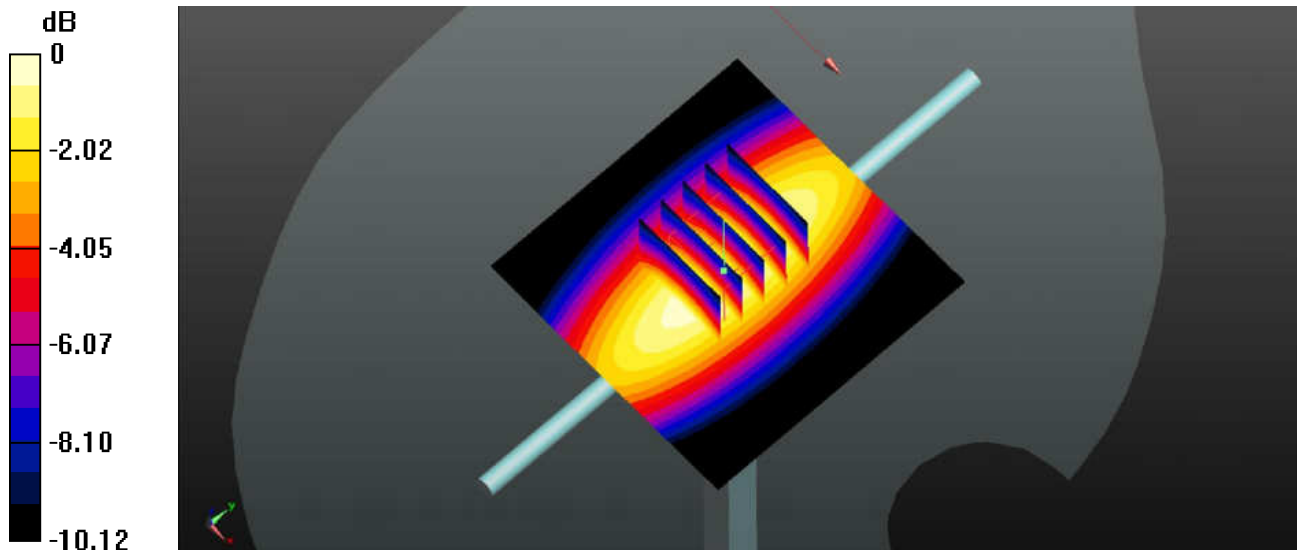
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 49.53 V/m ; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 3.39 W/kg

SAR(1 g) = 2.25 W/kg ; SAR(10 g) = 1.5 W/kg

Maximum value of SAR (measured) = 2.99 W/kg



0 dB = 2.99 W/kg

System Check_Body_835MHz_20180225

DUT: D835V2 SN:4d151

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

Medium: MSL_835_Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.996 \text{ S/m}$; $\epsilon_r = 55.226$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : $23.3 \text{ }^\circ\text{C}$; Liquid Temperature : $22.2 \text{ }^\circ\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN3935; ConvF(10.33, 10.33, 10.33); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 3.76 W/kg

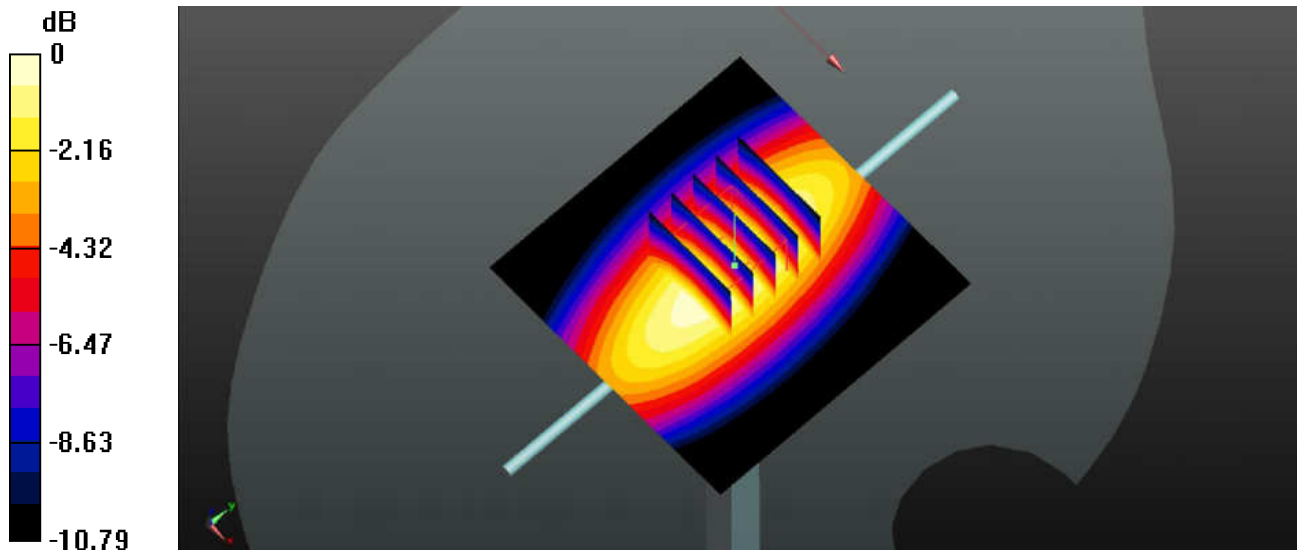
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 54.47 V/m ; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 4.29 W/kg

SAR(1 g) = 2.60 W/kg ; SAR(10 g) = 1.74 W/kg

Maximum value of SAR (measured) = 3.77 W/kg



0 dB = 3.77 W/kg

System Check_Body_1750MHz_20180224

DUT: D1750V2 SN:1090

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

Medium: MSL_1750_Medium parameters used: $f = 1750$ MHz; $\sigma = 1.466$ S/m; $\epsilon_r = 54.713$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3935; ConvF(8.71, 8.71, 8.71); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

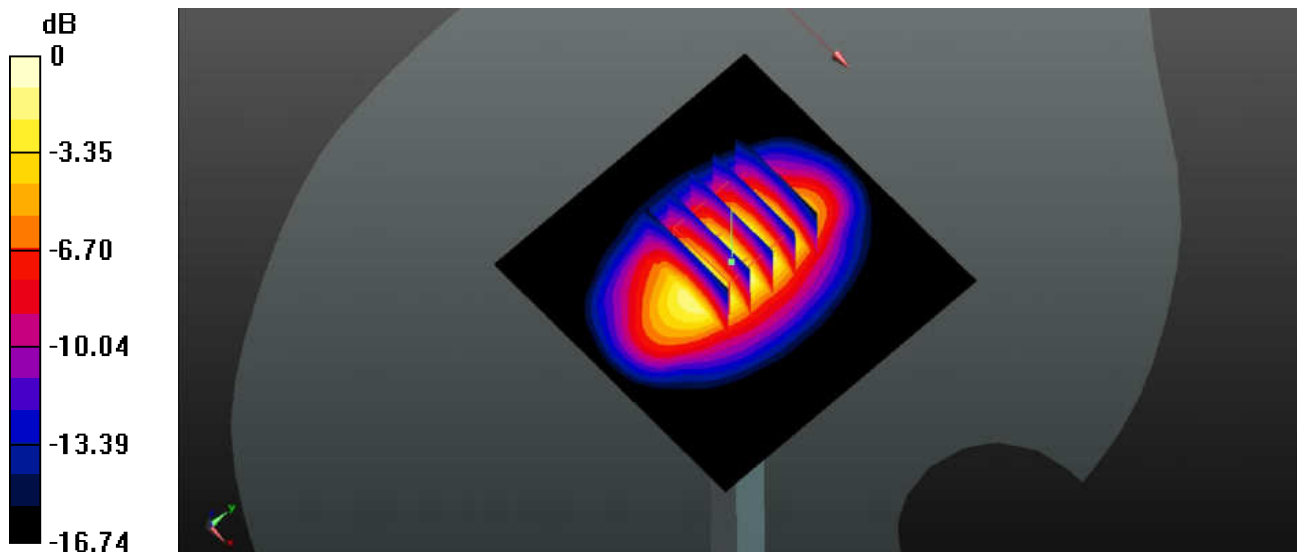
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 90.90 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 16.0 W/kg

SAR(1 g) = 9.04 W/kg; SAR(10 g) = 4.84 W/kg

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



System Check_Body_1900MHz_20180224

DUT: D1900V2 SN:5d170

Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: MSL_1900_Medium parameters used: $f = 1900$ MHz; $\sigma = 1.561$ S/m; $\epsilon_r = 53.103$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C; Liquid Temperature : 22.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3935; ConvF(8.3, 8.3, 8.3); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 15.9 W/kg

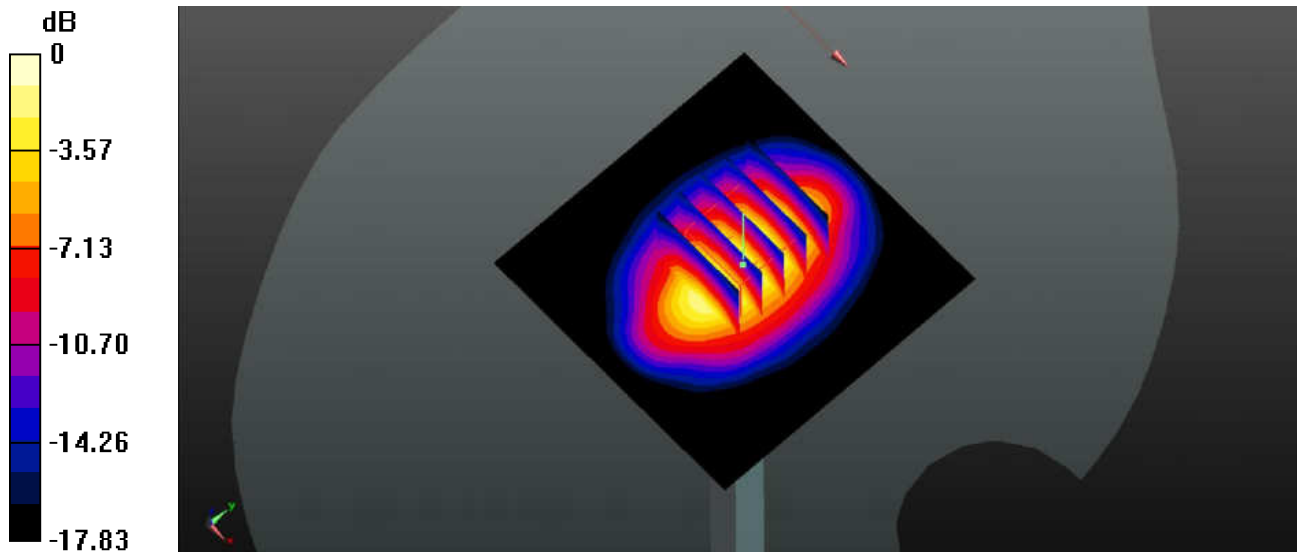
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 85.24 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 18.9 W/kg

SAR(1 g) = 10.4 W/kg; SAR(10 g) = 5.39 W/kg

Maximum value of SAR (measured) = 15.9 W/kg



System Check_Body_2600MHz_20180224

DUT: D2600V2 SN:1112

Communication System: UID 0, CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: MSL_2600_Medium parameters used: $f = 2600$ MHz; $\sigma = 2.148$ S/m; $\epsilon_r = 53.076$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3935; ConvF(7.71, 7.71, 7.71); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Pin=250mW/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 22.5 W/kg

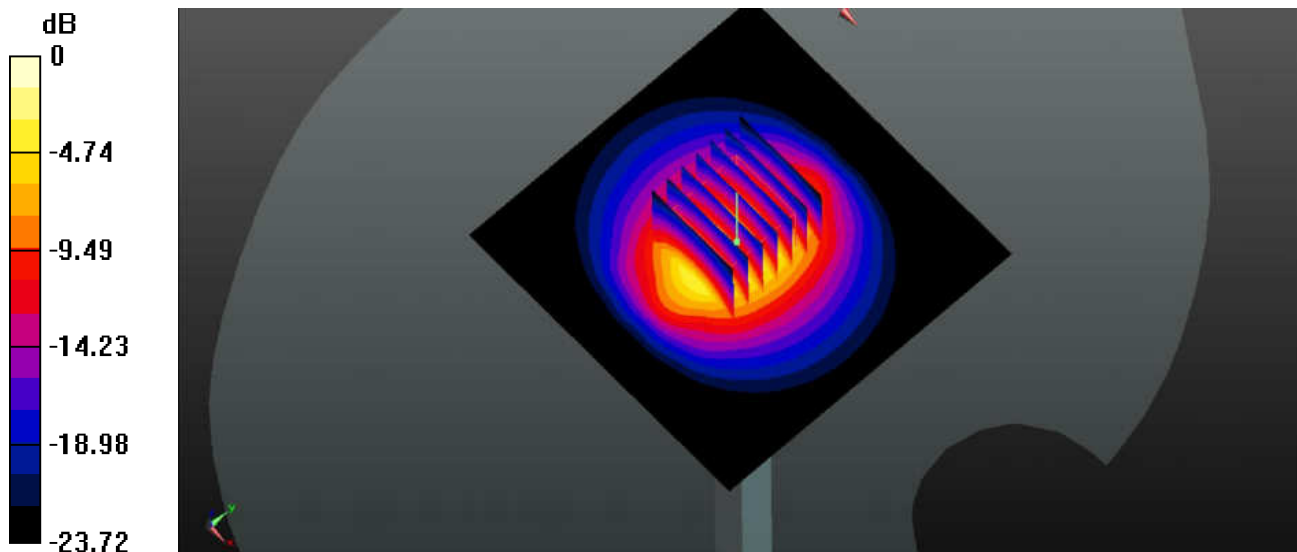
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 84.47 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 27.7 W/kg

SAR(1 g) = 13.1 W/kg; SAR(10 g) = 5.75 W/kg

Maximum value of SAR (measured) = 22.4 W/kg



0 dB = 22.4 W/kg



Appendix B. Plots of High SAR Measurement

The plots are shown as follows.

#01_WCDMA Band V_RMC 12.2Kbps_Right Cheek_0mm_Ch4132

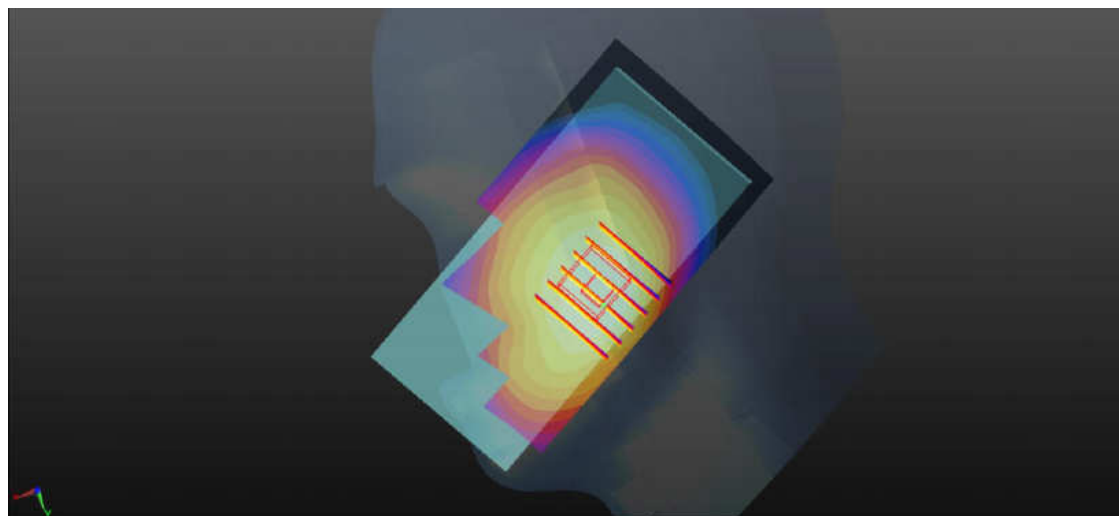
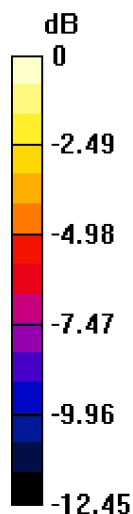
Communication System: UID 0, WCDMA (0); Frequency: 826.4 MHz; Duty Cycle: 1:1
Medium: HSL_835_Medium parameters used: $f = 826.4$ MHz; $\sigma = 0.899$ S/m; $\epsilon_r = 42.446$;
 $\rho = 1000 \text{ kg/m}^3$
Ambient Temperature : 23.5°C ; Liquid Temperature : 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3935; ConvF(10.36, 10.36, 10.36); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch4132/Area Scan (61x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.492 W/kg

Ch4132/Zoom Scan (6x6x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 5.628 V/m ; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 0.530 W/kg
SAR(1 g) = 0.387 W/kg ; SAR(10 g) = 0.293 W/kg
Maximum value of SAR (measured) = 0.464 W/kg



0 dB = 0.464 W/kg

#02_WCDMA Band IV_RMC 12.2Kbps_Right Cheek_0mm_Ch1312

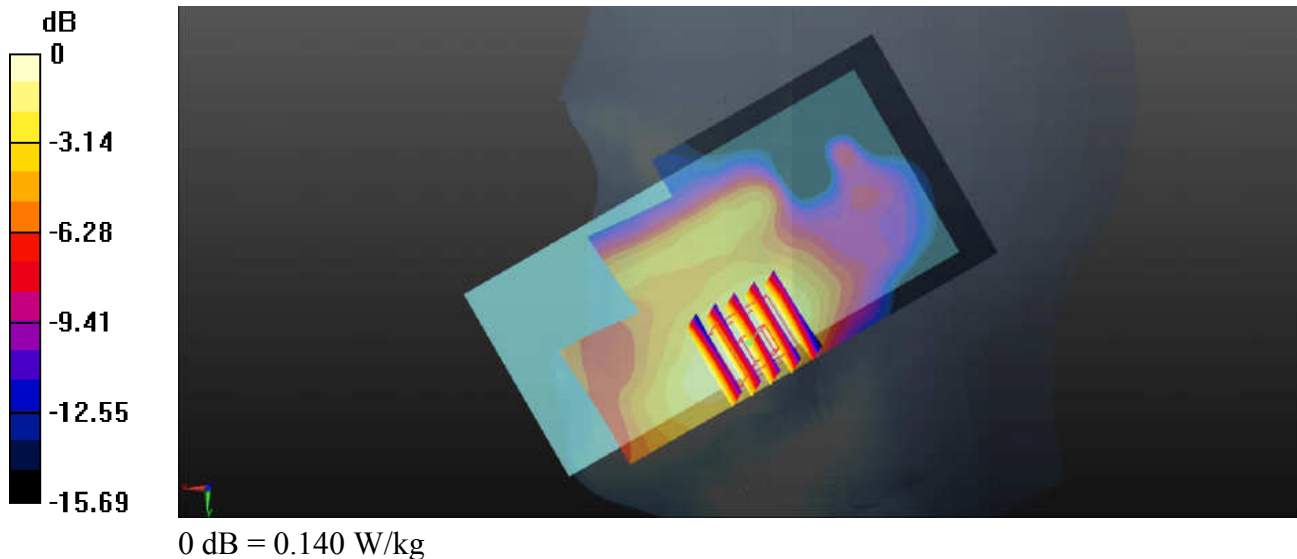
Communication System: UID 0, WCDMA (0); Frequency: 1712.4 MHz; Duty Cycle: 1:1
 Medium: HSL_1750_Medium parameters used: $f = 1712.4$ MHz; $\sigma = 1.338$ S/m; $\epsilon_r = 41.526$;
 $\rho = 1000$ kg/m³
 Ambient Temperature : 23.5 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3935; ConvF(8.85, 8.85, 8.85); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch1312/Area Scan (61x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Maximum value of SAR (interpolated) = 0.143 W/kg

Ch1312/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
 Reference Value = 2.992 V/m; Power Drift = 0.06 dB
 Peak SAR (extrapolated) = 0.173 W/kg
SAR(1 g) = 0.105 W/kg; SAR(10 g) = 0.068 W/kg
 Maximum value of SAR (measured) = 0.140 W/kg



#03_WCDMA Band II_RMC 12.2Kbps_Right Cheek_0mm_Ch9400

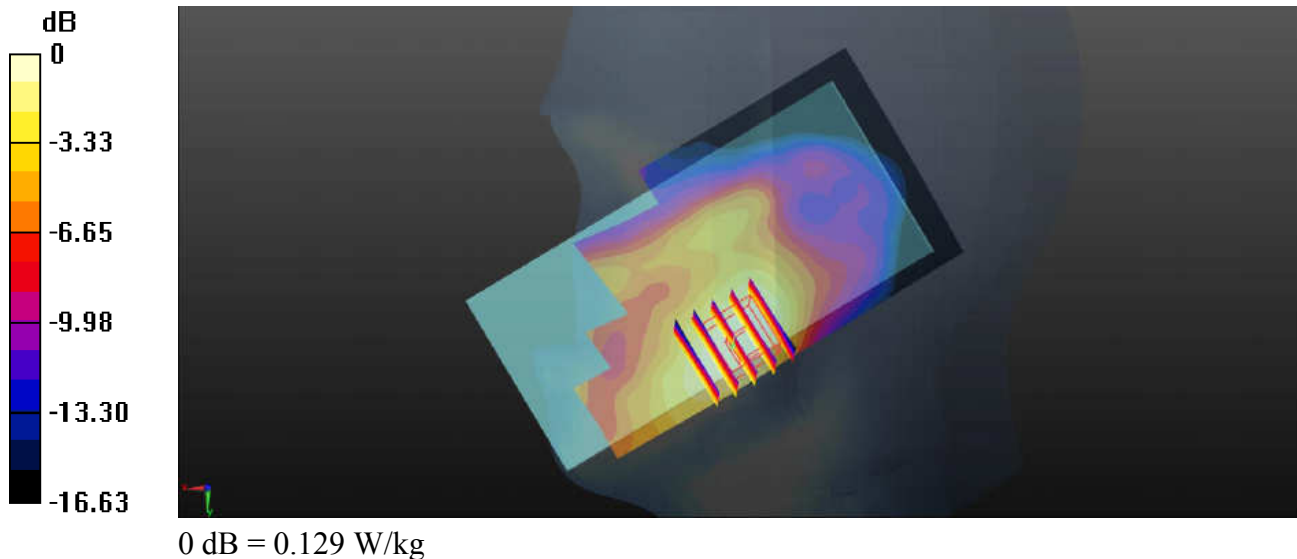
Communication System: UID 0, WCDMA (0); Frequency: 1880 MHz; Duty Cycle: 1:1
 Medium: HSL_1900_Medium parameters used: $f = 1880$ MHz; $\sigma = 1.443$ S/m; $\epsilon_r = 39.231$;
 $\rho = 1000 \text{ kg/m}^3$
 Ambient Temperature : 23.5°C ; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3935; ConvF(8.41, 8.41, 8.41); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch9400/Area Scan (61x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
 Maximum value of SAR (interpolated) = 0.131 W/kg

Ch9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 2.442 V/m ; Power Drift = 0.05 dB
 Peak SAR (extrapolated) = 0.157 W/kg
SAR(1 g) = 0.095 W/kg ; SAR(10 g) = 0.059 W/kg
 Maximum value of SAR (measured) = 0.129 W/kg



#04_LTE Band 71_20M_QPSK_1RB_99offset_Right Cheek_0mm_Ch133322

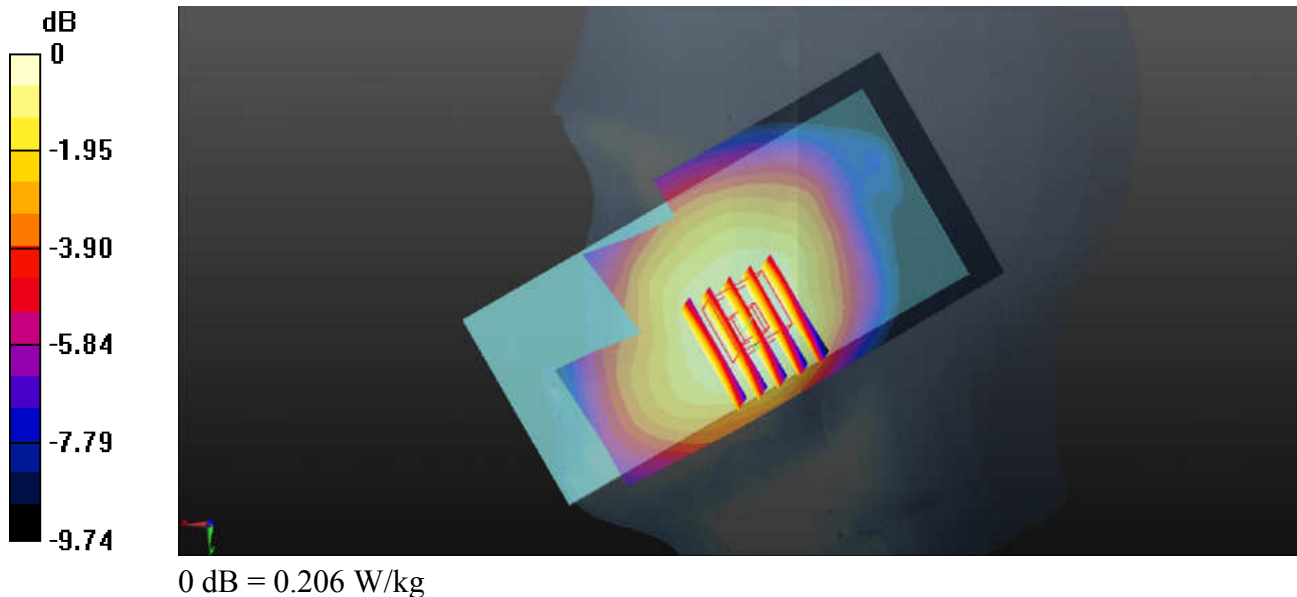
Communication System: UID 0, FDD-LTE (0); Frequency: 683 MHz; Duty Cycle: 1:1
 Medium: HSL_750_Medium parameters used: $f = 683 \text{ MHz}$; $\sigma = 0.832 \text{ S/m}$; $\epsilon_r = 42.921$;
 $\rho = 1000 \text{ kg/m}^3$
 Ambient Temperature : $23.5 \text{ }^\circ\text{C}$; Liquid Temperature : $22.6 \text{ }^\circ\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN3935; ConvF(10.68, 10.68, 10.68); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch133322/Area Scan (61x121x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
 Maximum value of SAR (interpolated) = 0.206 W/kg

Ch133322/Zoom Scan (6x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 4.507 V/m ; Power Drift = 0.08 dB
 Peak SAR (extrapolated) = 0.221 W/kg
SAR(1 g) = 0.175 W/kg ; SAR(10 g) = 0.139 W/kg
 Maximum value of SAR (measured) = 0.206 W/kg



#05_LTE Band 5_10M_QPSK_1RB_49offset_Right Cheek_0mm_Ch20525

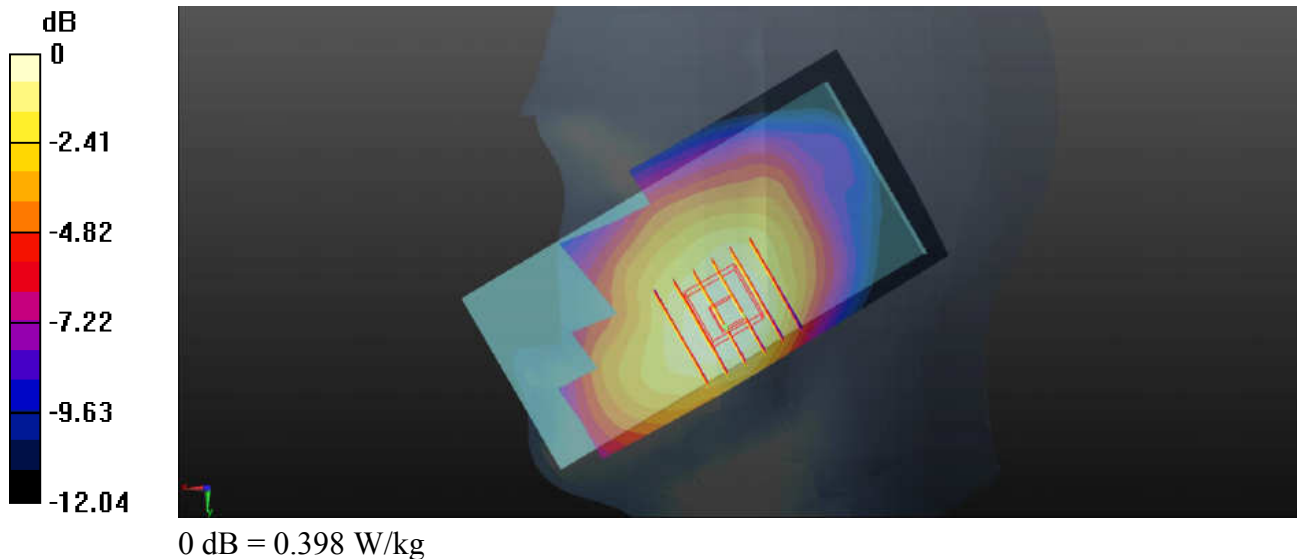
Communication System: UID 0, FDD-LTE (0); Frequency: 836.5 MHz; Duty Cycle: 1:1
 Medium: HSL_835_Medium parameters used: $f = 836.5 \text{ MHz}$; $\sigma = 0.908 \text{ S/m}$; $\epsilon_r = 42.319$;
 $\rho = 1000 \text{ kg/m}^3$
 Ambient Temperature : $23.5 \text{ }^\circ\text{C}$; Liquid Temperature : $22.5 \text{ }^\circ\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN3935; ConvF(10.36, 10.36, 10.36); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch20525/Area Scan (61x121x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
 Maximum value of SAR (interpolated) = 0.422 W/kg

Ch20525/Zoom Scan (6x6x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 5.885 V/m ; Power Drift = 0.02 dB
 Peak SAR (extrapolated) = 0.448 W/kg
SAR(1 g) = 0.325 W/kg ; SAR(10 g) = 0.245 W/kg
 Maximum value of SAR (measured) = 0.398 W/kg



#06_LTE Band 66_20M_QPSK_1RB_99offset_Left Cheek_0mm_Ch132072

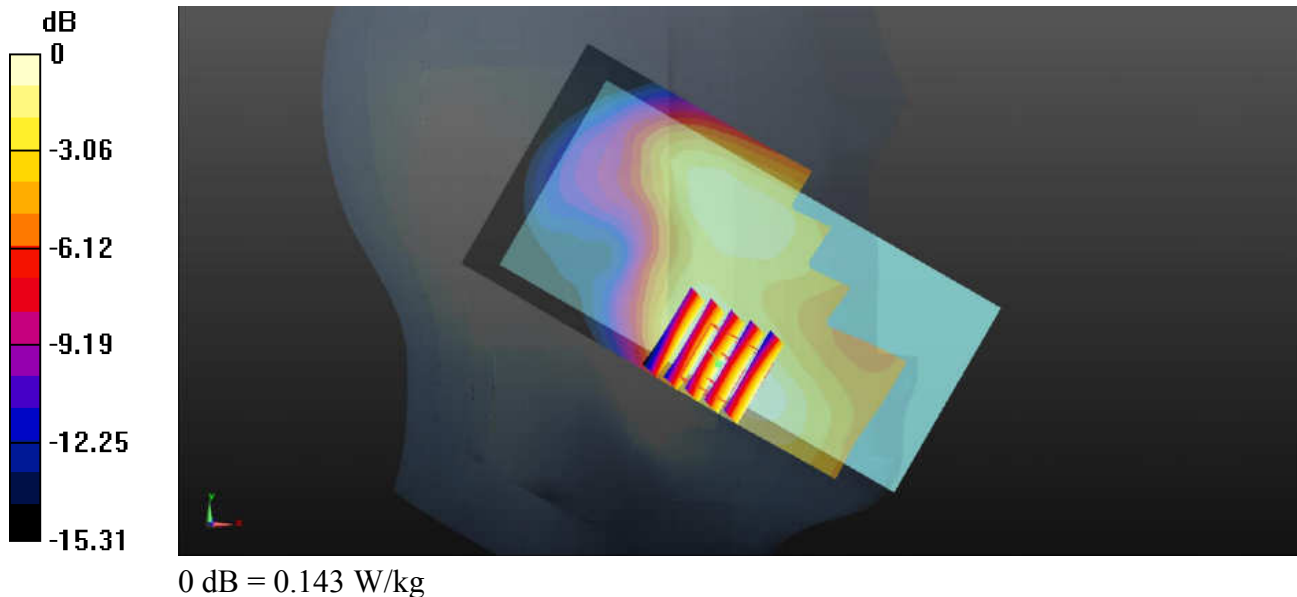
Communication System: UID 0, FDD-LTE (0); Frequency: 1720 MHz; Duty Cycle: 1:1
Medium: HSL_1750_Medium parameters used: $f = 1720$ MHz; $\sigma = 1.345$ S/m; $\epsilon_r = 41.492$;
 $\rho = 1000 \text{ kg/m}^3$
Ambient Temperature : 23.5 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3935; ConvF(8.85, 8.85, 8.85); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch132072/Area Scan (61x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.150 W/kg

Ch132072/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 2.898 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.168 W/kg
SAR(1 g) = 0.110 W/kg; SAR(10 g) = 0.072 W/kg
Maximum value of SAR (measured) = 0.143 W/kg



#07_LTE Band 2_20M_QPSK_1RB_0offset_Left Cheek_0mm_Ch18900

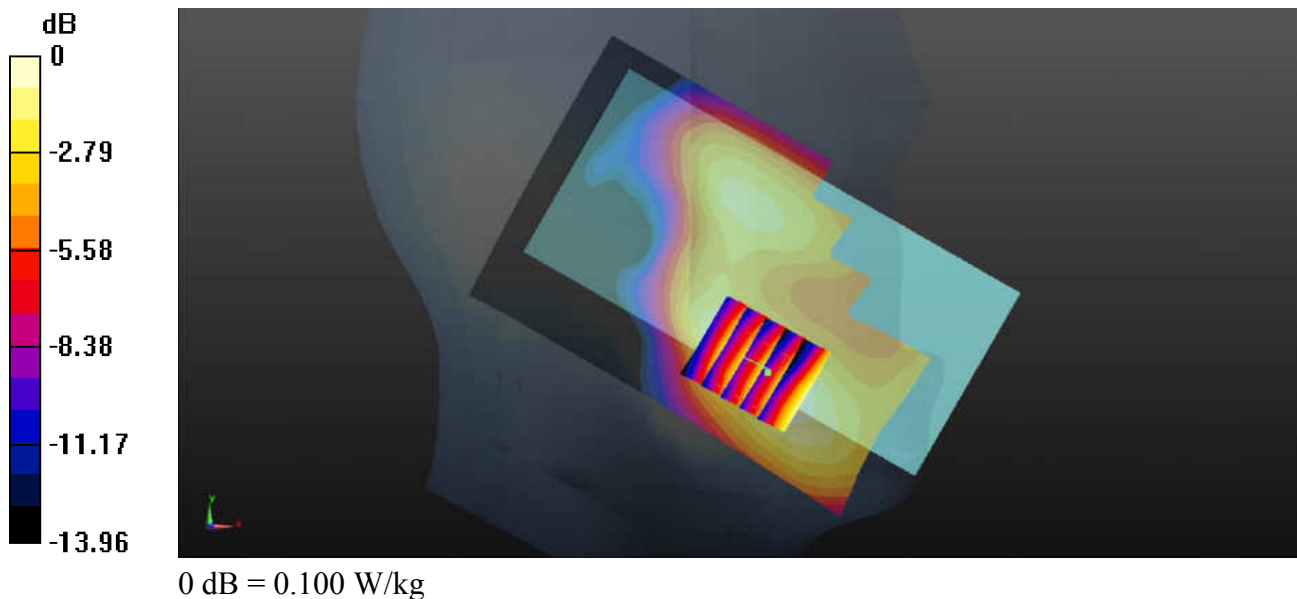
Communication System: UID 0, FDD-LTE (0); Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: HSL_1900_Medium parameters used: $f = 1880$ MHz; $\sigma = 1.443$ S/m; $\epsilon_r = 39.231$;
 $\rho = 1000$ kg/m³
Ambient Temperature : 23.5 °C; Liquid Temperature : 22.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3935; ConvF(8.41, 8.41, 8.41); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch18900/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.0979 W/kg

Ch18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.195 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 0.121 W/kg
SAR(1 g) = 0.076 W/kg; SAR(10 g) = 0.048 W/kg
Maximum value of SAR (measured) = 0.100 W/kg



#08_LTE Band 41_20M_QPSK_1RB_99offset_Left Cheek_0mm_Ch40620

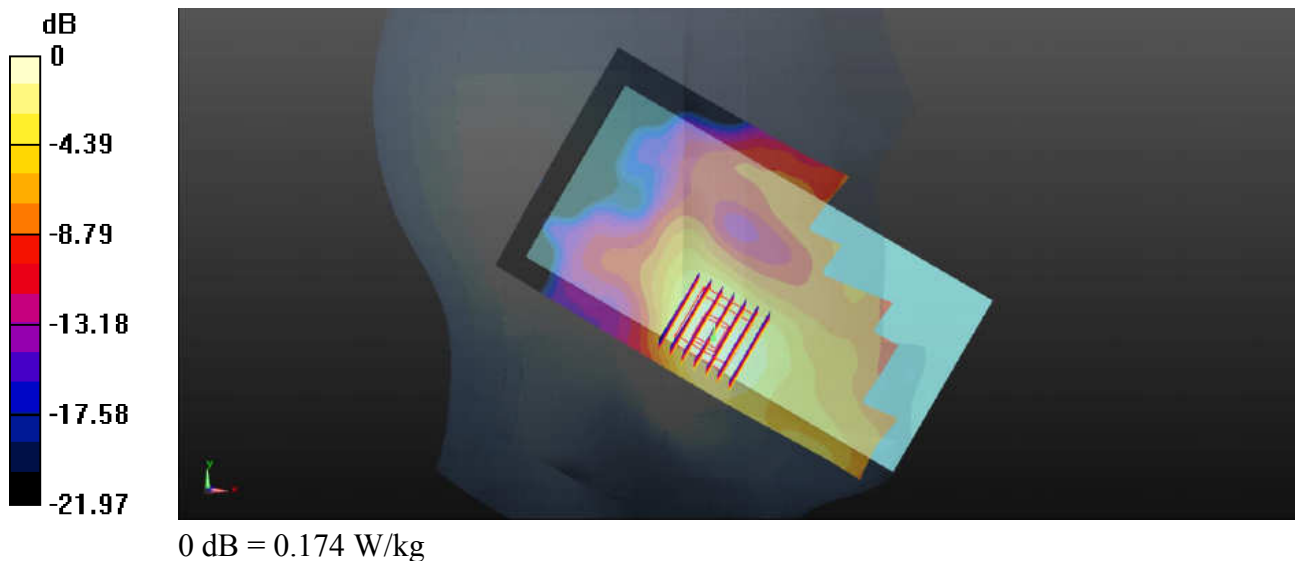
Communication System: UID 0, TDD-LTE (0); Frequency: 2593 MHz; Duty Cycle: 1:1.59
Medium: HSL_2600_Medium parameters used: $f = 2593$ MHz; $\sigma = 2.029$ S/m; $\epsilon_r = 39.063$;
 $\rho = 1000 \text{ kg/m}^3$
Ambient Temperature : 23.3°C ; Liquid Temperature : 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3935; ConvF(7.67, 7.67, 7.67); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch40620/Area Scan (81x151x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm
Maximum value of SAR (interpolated) = 0.160 W/kg

Ch40620/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
Reference Value = 1.231 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 0.220 W/kg
SAR(1 g) = 0.106 W/kg; SAR(10 g) = 0.054 W/kg
Maximum value of SAR (measured) = 0.174 W/kg



#09_WCDMA Band V_RMC 12.2Kbps_Front_5mm_Ch4132

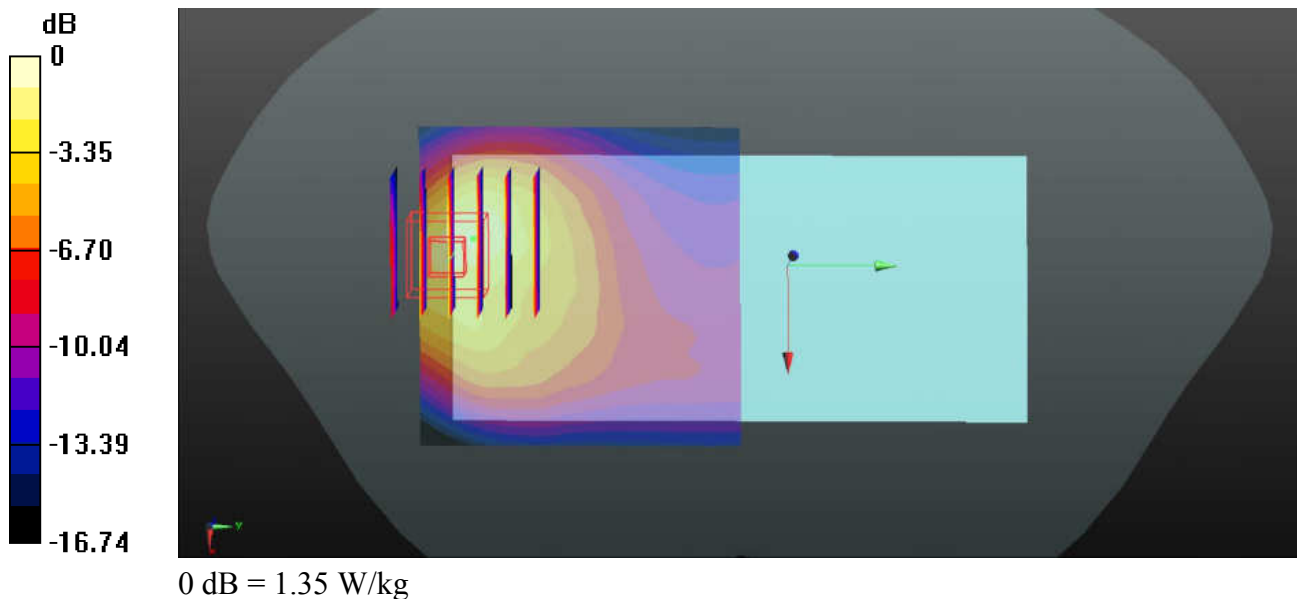
Communication System: UID 0, WCDMA (0); Frequency: 826.4 MHz; Duty Cycle: 1:1
Medium: MSL_835_Medium parameters used: $f = 826.4$ MHz; $\sigma = 0.987$ S/m; $\epsilon_r = 55.309$;
 $\rho = 1000 \text{ kg/m}^3$
Ambient Temperature : 23.3°C ; Liquid Temperature : 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3935; ConvF(10.33, 10.33, 10.33); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch4132/Area Scan (61x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 1.09 W/kg

Ch4132/Zoom Scan (6x6x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 11.16 V/m ; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 1.69 W/kg
SAR(1 g) = 0.769 W/kg ; SAR(10 g) = 0.394 W/kg
Maximum value of SAR (measured) = 1.35 W/kg



#10_WCDMA Band IV_RMC 12.2Kbps_Bottom side_5mm_Ch1312

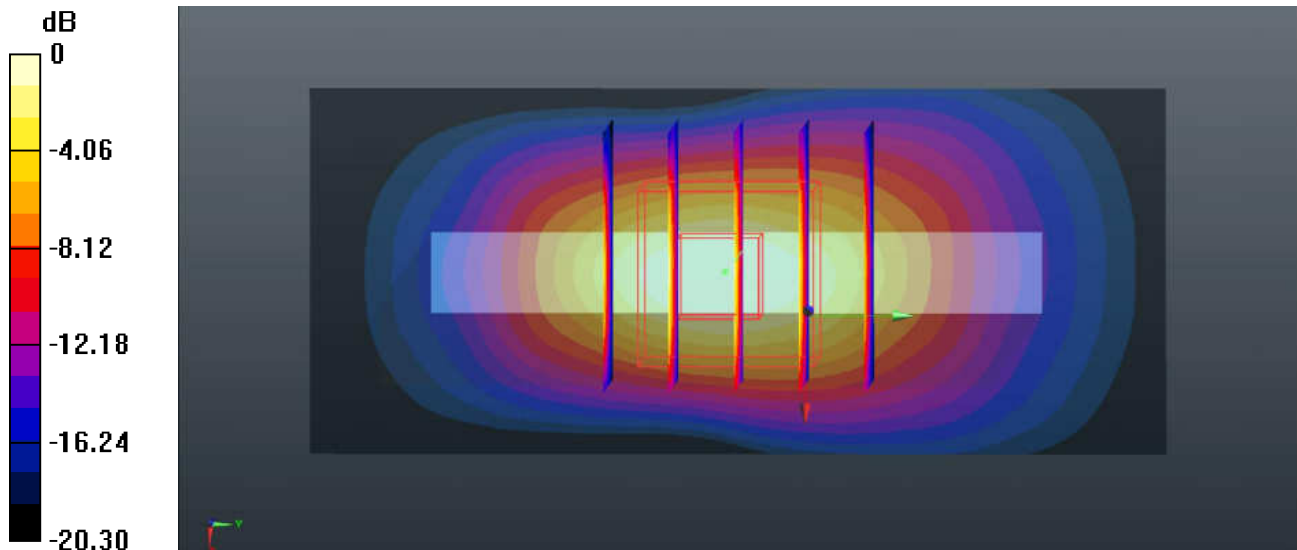
Communication System: UID 0, WCDMA (0); Frequency: 1712.4 MHz; Duty Cycle: 1:1
 Medium: MSL_1750_Medium parameters used: $f = 1712.4$ MHz; $\sigma = 1.427$ S/m; $\epsilon_r = 54.832$;
 $\rho = 1000$ kg/m³
 Ambient Temperature : 23.5 °C ; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3935; ConvF(8.71, 8.71, 8.71); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch1312/Area Scan (31x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Maximum value of SAR (interpolated) = 1.24 W/kg

Ch1312/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
 Reference Value = 22.45 V/m; Power Drift = -0.01 dB
 Peak SAR (extrapolated) = 1.35 W/kg
SAR(1 g) = 0.653 W/kg; SAR(10 g) = 0.298 W/kg
 Maximum value of SAR (measured) = 1.02 W/kg



0 dB = 1.02 W/kg

#11_WCDMA Band II_RMC 12.2Kbps_Bottom side_5mm_Ch9262

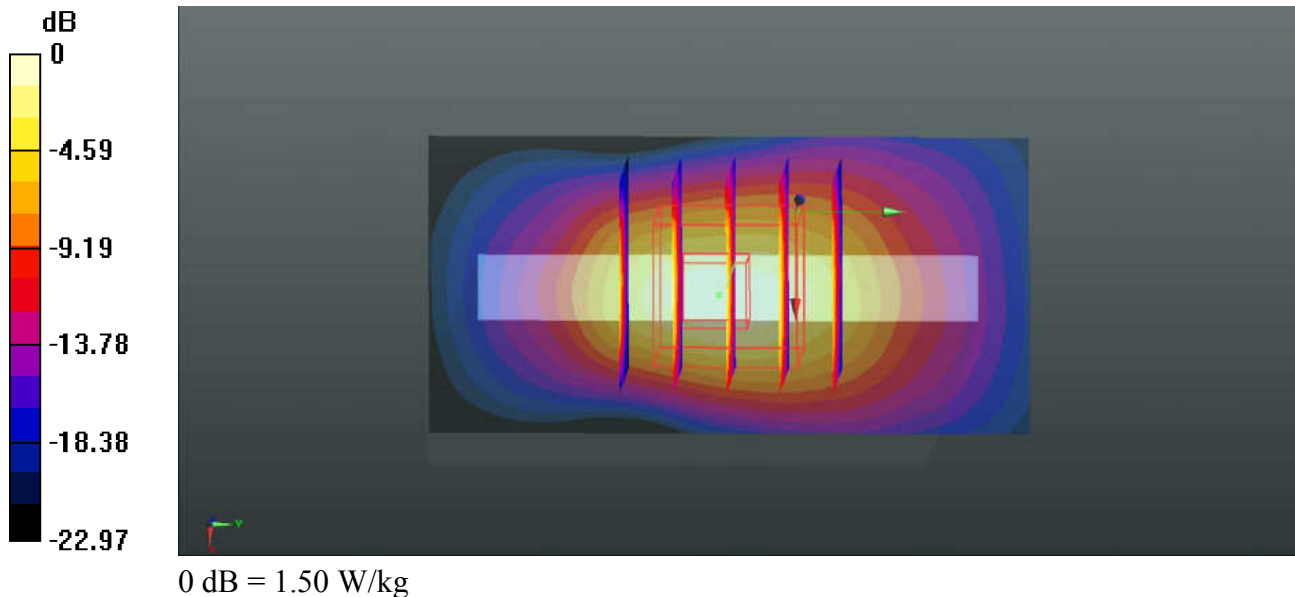
Communication System: UID 0, WCDMA (0); Frequency: 1852.4 MHz; Duty Cycle: 1:1
Medium: MSL_1900_Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.506$ S/m; $\epsilon_r = 53.229$;
 $\rho = 1000$ kg/m³
Ambient Temperature : 23.4 °C; Liquid Temperature : 22.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3935; ConvF(8.3, 8.3, 8.3); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch9262/Area Scan (31x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.48 W/kg

Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 25.76 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 1.92 W/kg
SAR(1 g) = 0.911 W/kg; SAR(10 g) = 0.408 W/kg
Maximum value of SAR (measured) = 1.50 W/kg



#12_LTE Band 71_20M_QPSK_1RB_99offset_Front_5mm_Ch133322

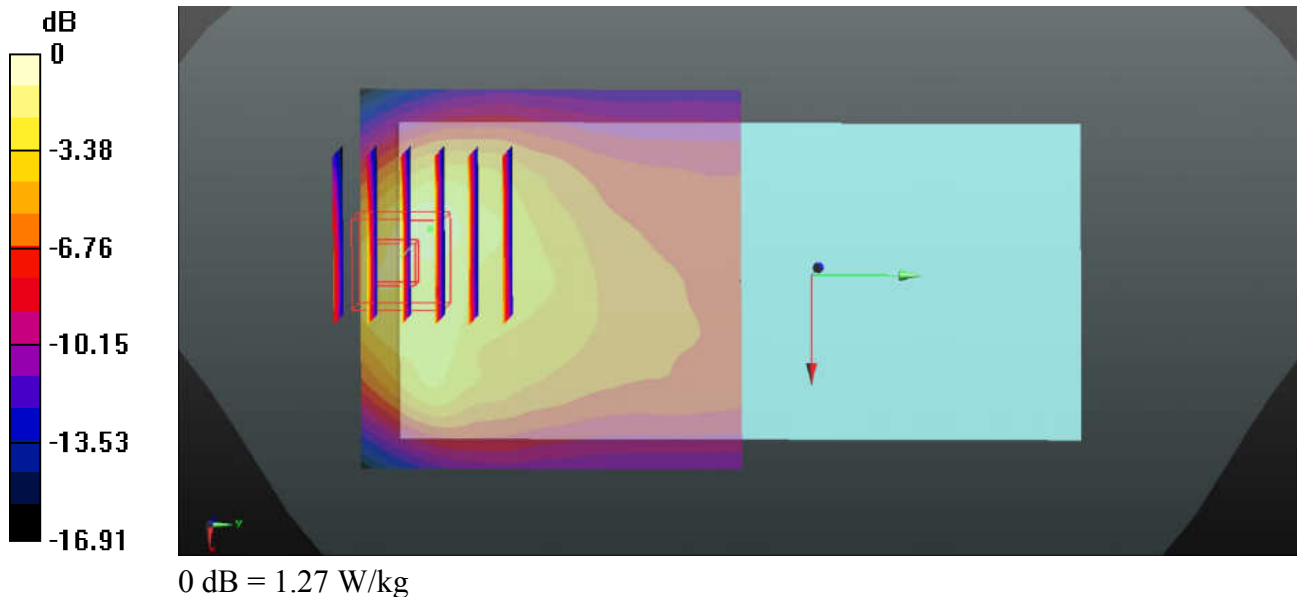
Communication System: UID 0, FDD-LTE (0); Frequency: 683 MHz; Duty Cycle: 1:1
Medium: MSL_750_Medium parameters used: $f = 683 \text{ MHz}$; $\sigma = 0.913 \text{ S/m}$; $\epsilon_r = 57.474$;
 $\rho = 1000 \text{ kg/m}^3$
Ambient Temperature : $23.6 \text{ }^\circ\text{C}$; Liquid Temperature : $22.4 \text{ }^\circ\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN3935; ConvF(10.65, 10.65, 10.65); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch133322/Area Scan (61x61x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.976 W/kg

Ch133322/Zoom Scan (6x6x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 15.39 V/m ; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 1.62 W/kg
SAR(1 g) = 0.696 W/kg ; SAR(10 g) = 0.356 W/kg
Maximum value of SAR (measured) = 1.27 W/kg



#13_LTE Band 5_10M_QPSK_1RB_49offset_Front_5mm_Ch20525

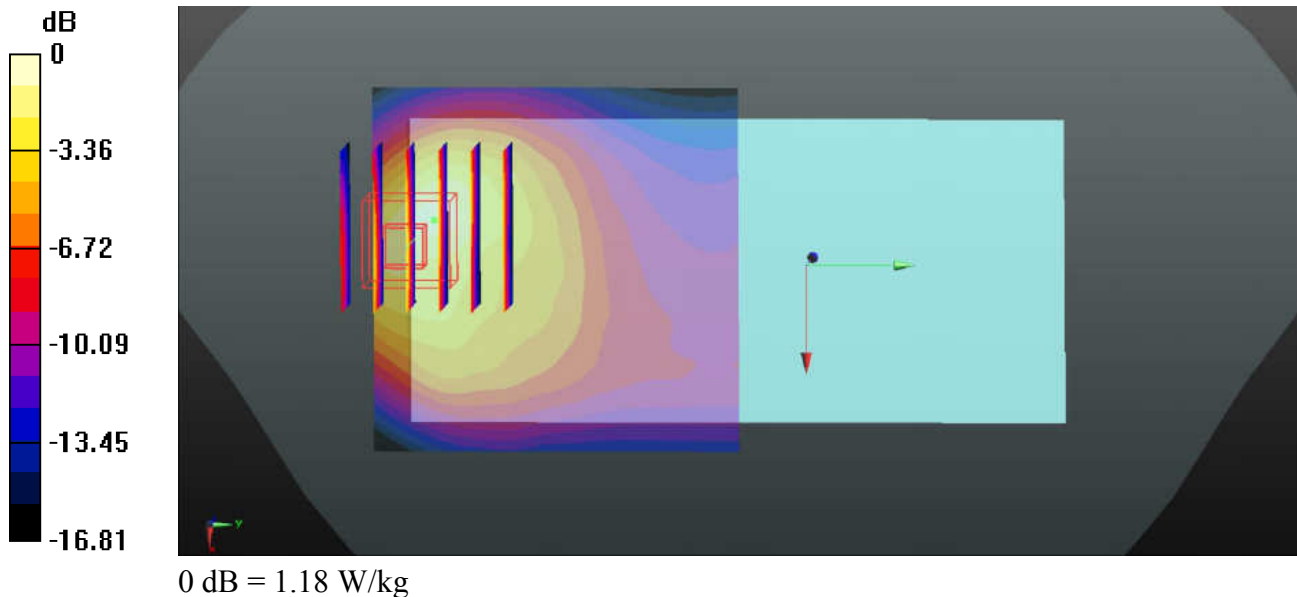
Communication System: UID 0, FDD-LTE (0); Frequency: 836.5 MHz; Duty Cycle: 1:1
Medium: MSL_835_Medium parameters used: $f = 836.5$ MHz; $\sigma = 0.997$ S/m; $\epsilon_r = 55.211$;
 $\rho = 1000 \text{ kg/m}^3$
Ambient Temperature : 23.3°C ; Liquid Temperature : 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3935; ConvF(10.33, 10.33, 10.33); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch20525/Area Scan (61x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 1.06 W/kg

Ch20525/Zoom Scan (6x6x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 10.13 V/m ; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 1.48 W/kg
SAR(1 g) = 0.687 W/kg ; SAR(10 g) = 0.358 W/kg
Maximum value of SAR (measured) = 1.18 W/kg



#14_LTE Band 66_20M_QPSK_1RB_99offset_Bottom side_5mm_Ch132072

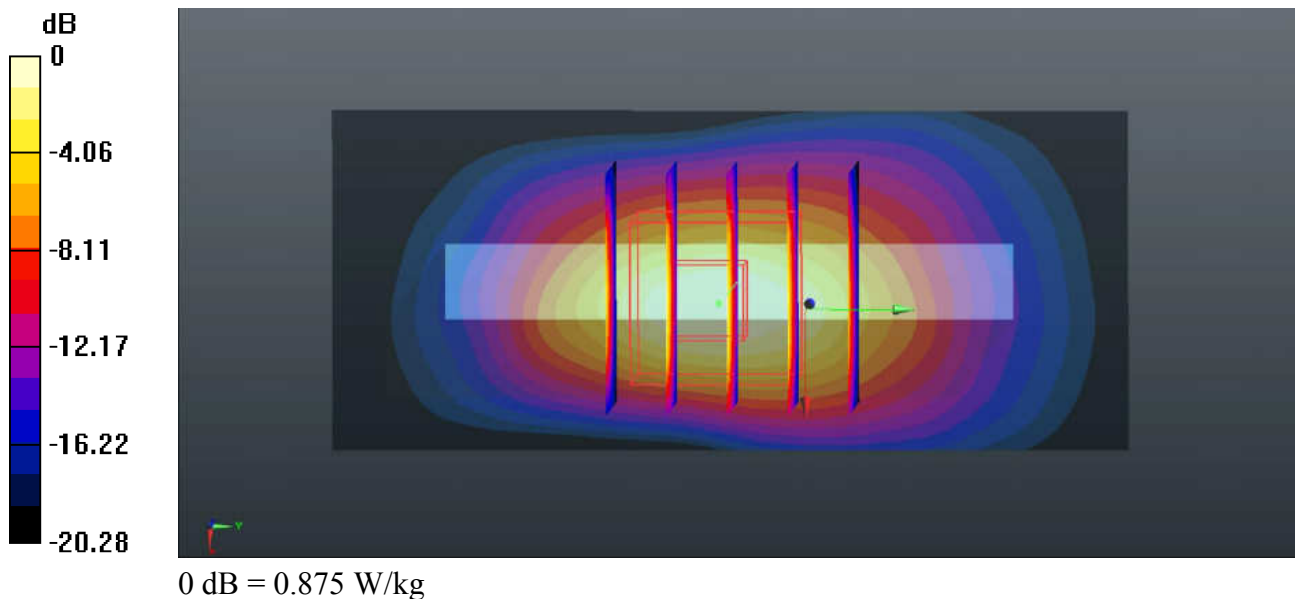
Communication System: UID 0, FDD-LTE (0); Frequency: 1720 MHz; Duty Cycle: 1:1
Medium: MSL_1750_Medium parameters used: $f = 1720$ MHz; $\sigma = 1.435$ S/m; $\epsilon_r = 54.803$;
 $\rho = 1000 \text{ kg/m}^3$
Ambient Temperature : 23.5 °C ; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3935; ConvF(8.71, 8.71, 8.71); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch132072/Area Scan (31x71x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.982 W/kg

Ch132072/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 19.97 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 1.13 W/kg
SAR(1 g) = 0.548 W/kg; SAR(10 g) = 0.250 W/kg
Maximum value of SAR (measured) = 0.875 W/kg



#15_LTE Band 2_20M_QPSK_1RB_0offset_Bottom side_5mm_Ch18900

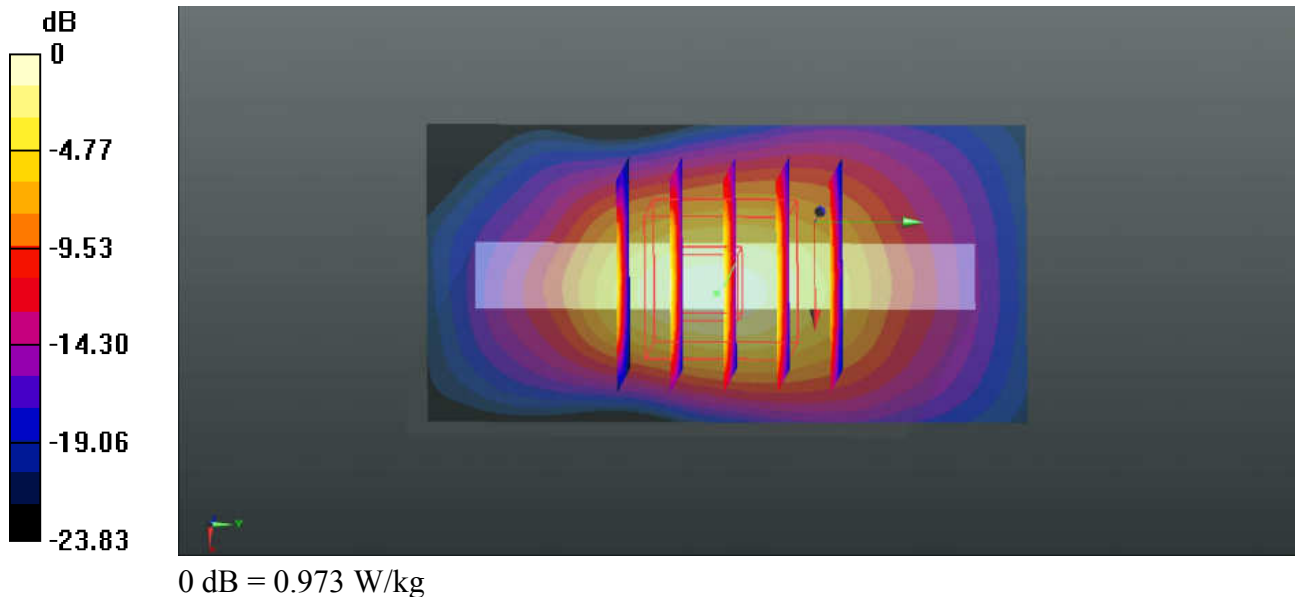
Communication System: UID 0, FDD-LTE (0); Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: MSL_1900_Medium parameters used: $f = 1880$ MHz; $\sigma = 1.538$ S/m; $\epsilon_r = 53.152$;
 $\rho = 1000 \text{ kg/m}^3$
Ambient Temperature : 23.4°C ; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3935; ConvF(8.3, 8.3, 8.3); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch18900/Area Scan (31x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.861 W/kg

Ch18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 20.06 V/m ; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 1.27 W/kg
SAR(1 g) = 0.578 W/kg ; SAR(10 g) = 0.254 W/kg
Maximum value of SAR (measured) = 0.973 W/kg



#16_LTE Band 41_20M_QPSK_1RB_99offset_Bottom side_5mm_Ch41490

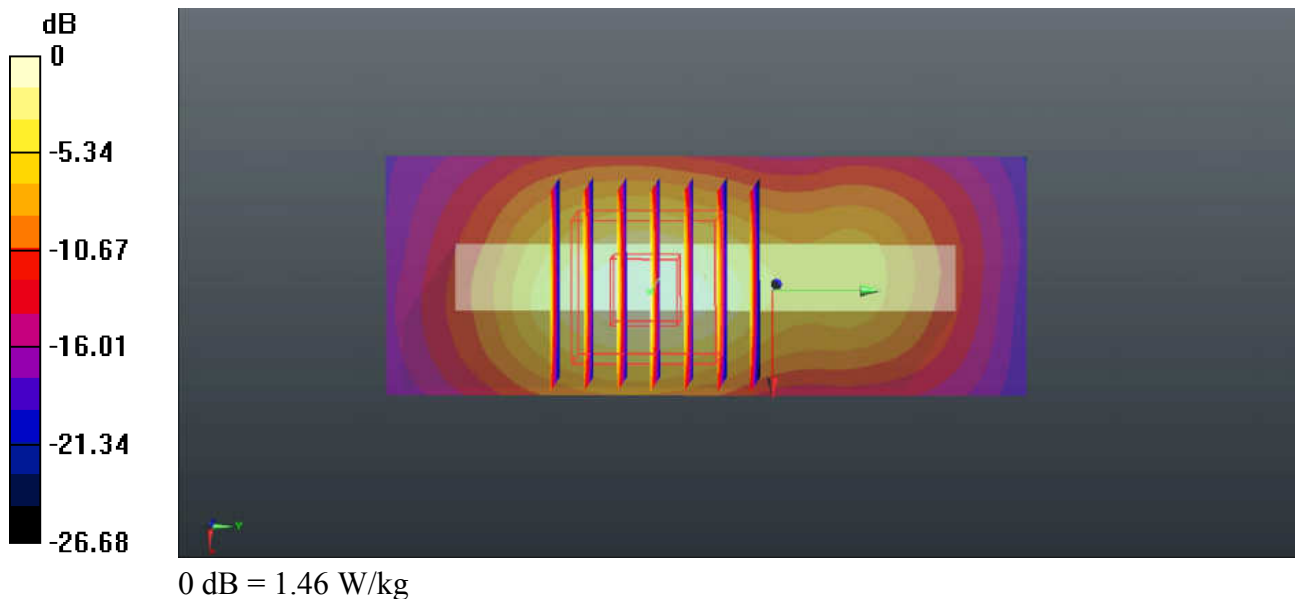
Communication System: UID 0, TDD-LTE (0); Frequency: 2680 MHz; Duty Cycle: 1:1.59
Medium: MSL_2600_Medium parameters used: $f = 2680$ MHz; $\sigma = 2.258$ S/m; $\epsilon_r = 52.777$;
 $\rho = 1000 \text{ kg/m}^3$
Ambient Temperature : 23.6 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3935; ConvF(7.71, 7.71, 7.71); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch41490/Area Scan (31x81x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm
Maximum value of SAR (interpolated) = 1.38 W/kg

Ch41490/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
Reference Value = 17.35 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 1.86 W/kg
SAR(1 g) = 0.797 W/kg; SAR(10 g) = 0.338 W/kg
Maximum value of SAR (measured) = 1.46 W/kg



#17_WCDMA Band V_RMC 12.2Kbps_Front_5mm_Ch4132

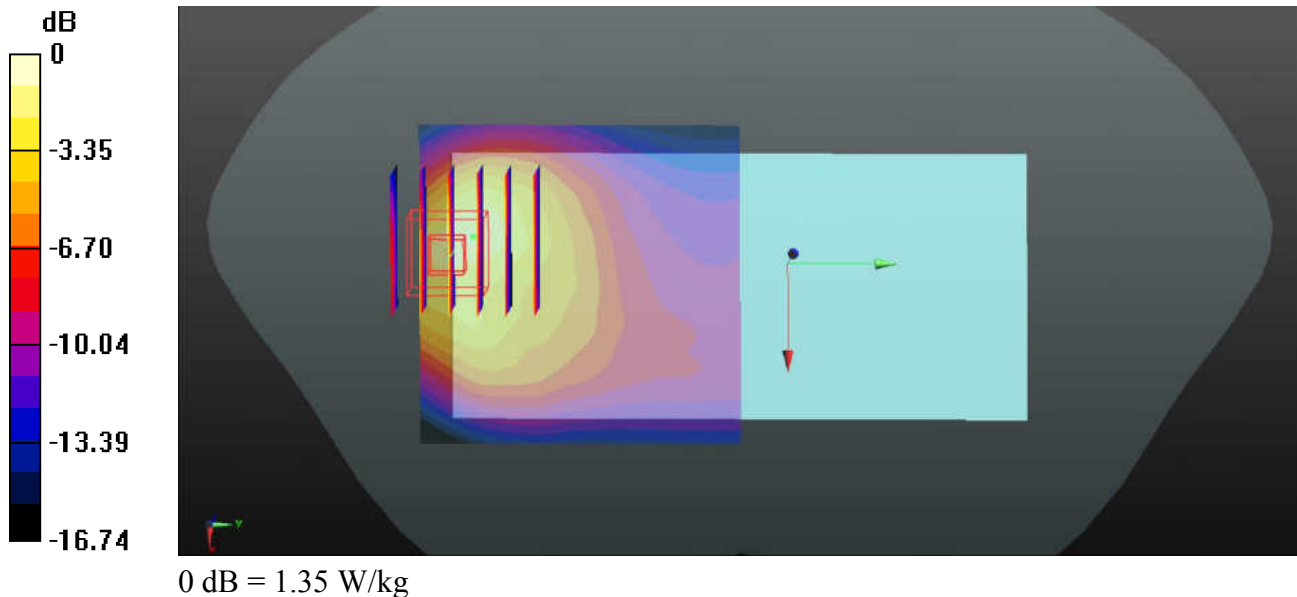
Communication System: UID 0, WCDMA (0); Frequency: 826.4 MHz; Duty Cycle: 1:1
Medium: MSL_835_Medium parameters used: $f = 826.4$ MHz; $\sigma = 0.987$ S/m; $\epsilon_r = 55.309$;
 $\rho = 1000 \text{ kg/m}^3$
Ambient Temperature : 23.3°C ; Liquid Temperature : 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3935; ConvF(10.33, 10.33, 10.33); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch4132/Area Scan (61x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 1.09 W/kg

Ch4132/Zoom Scan (6x6x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 11.16 V/m ; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 1.69 W/kg
SAR(1 g) = 0.769 W/kg ; SAR(10 g) = 0.394 W/kg
Maximum value of SAR (measured) = 1.35 W/kg



#18_WCDMA Band IV_RMC 12.2Kbps_Front_5mm_Ch1312

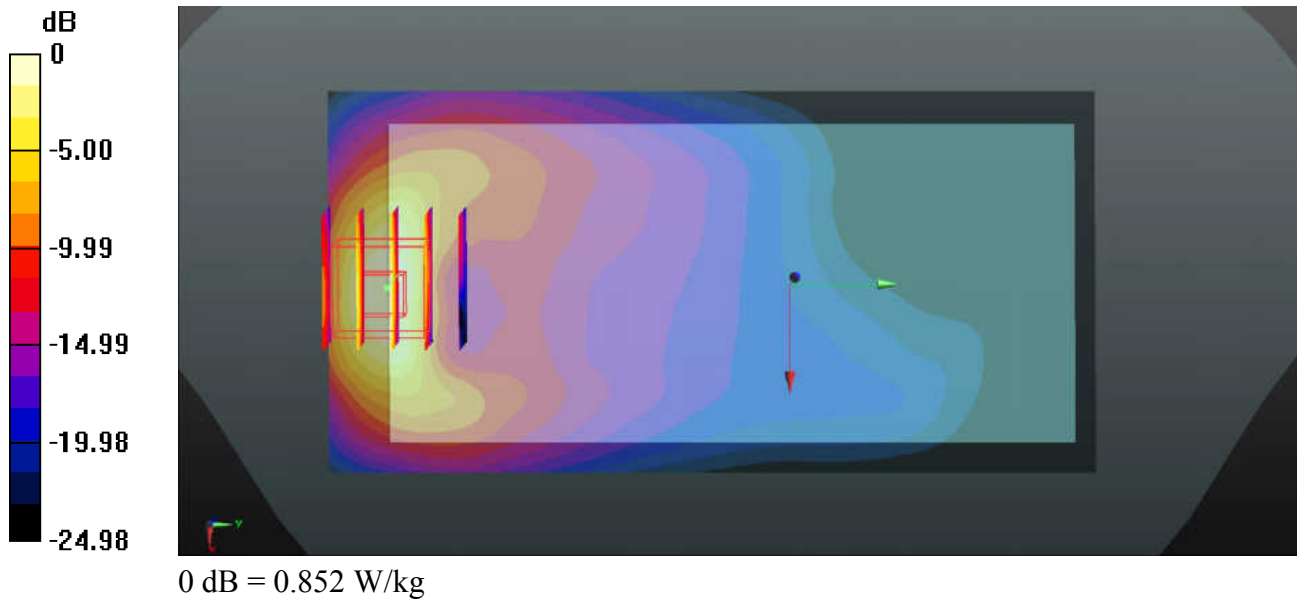
Communication System: UID 0, WCDMA (0); Frequency: 1712.4 MHz; Duty Cycle: 1:1
Medium: MSL_1750_Medium parameters used: $f = 1712.4$ MHz; $\sigma = 1.427$ S/m; $\epsilon_r = 54.832$;
 $\rho = 1000$ kg/m³
Ambient Temperature : 23.5 °C ; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3935; ConvF(8.71, 8.71, 8.71); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch1312/Area Scan (61x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.859 W/kg

Ch1312/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.815 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 1.04 W/kg
SAR(1 g) = 0.527 W/kg; SAR(10 g) = 0.241 W/kg
Maximum value of SAR (measured) = 0.852 W/kg



#19_WCDMA Band II_RMC 12.2Kbps_Front_5mm_Ch9538

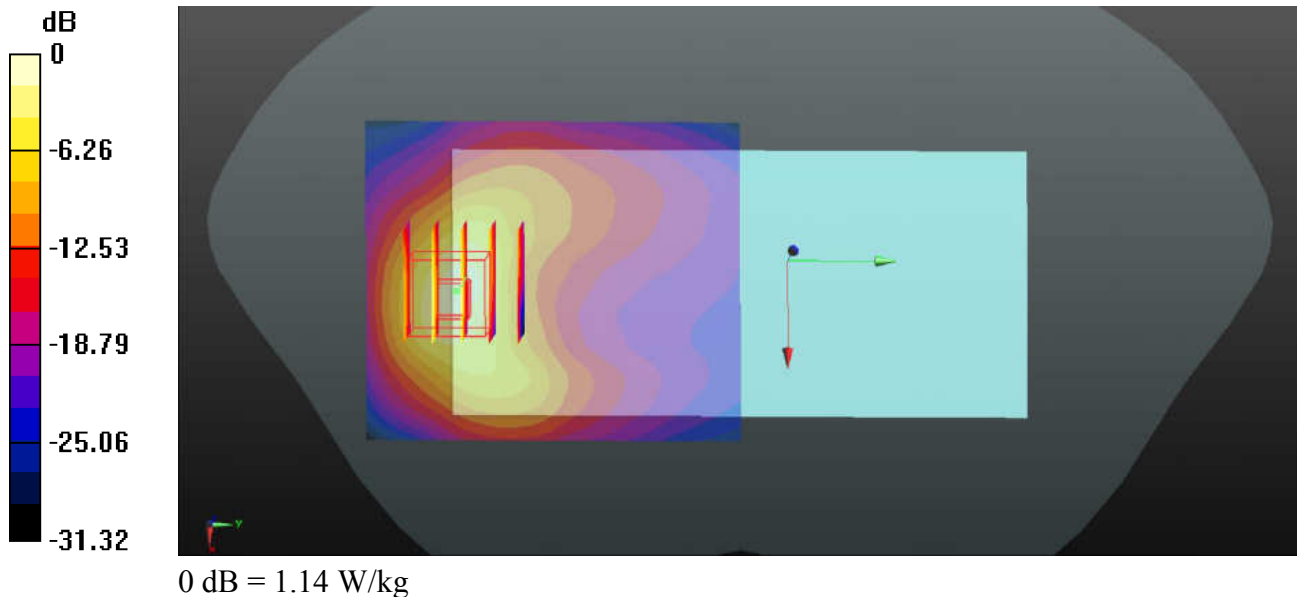
Communication System: UID 0, WCDMA (0); Frequency: 1907.6 MHz; Duty Cycle: 1:1
Medium: MSL_1900_Medium parameters used: $f = 1907.6$ MHz; $\sigma = 1.57$ S/m; $\epsilon_r = 53.081$;
 $\rho = 1000$ kg/m³
Ambient Temperature : 23.4 °C ; Liquid Temperature : 22.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3935; ConvF(8.3, 8.3, 8.3); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch9538/Area Scan (61x71x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.920 W/kg

Ch9538/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 2.062 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 1.53 W/kg
SAR(1 g) = 0.704 W/kg; SAR(10 g) = 0.298 W/kg
Maximum value of SAR (measured) = 1.14 W/kg



#20_LTE Band 71_20M_QPSK_1RB_99offset_Front_5mm_Ch133322

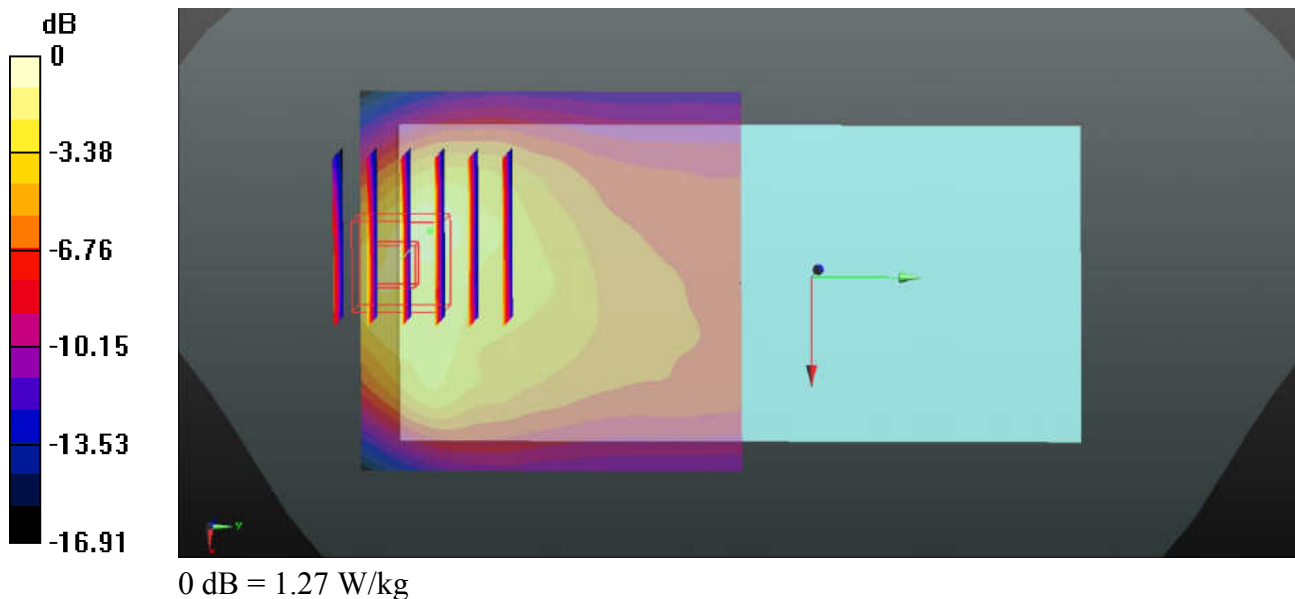
Communication System: UID 0, FDD-LTE (0); Frequency: 683 MHz; Duty Cycle: 1:1
Medium: MSL_750_Medium parameters used: $f = 683 \text{ MHz}$; $\sigma = 0.913 \text{ S/m}$; $\epsilon_r = 57.474$;
 $\rho = 1000 \text{ kg/m}^3$
Ambient Temperature : $23.6 \text{ }^\circ\text{C}$; Liquid Temperature : $22.4 \text{ }^\circ\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN3935; ConvF(10.65, 10.65, 10.65); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch133322/Area Scan (61x61x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.976 W/kg

Ch133322/Zoom Scan (6x6x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 15.39 V/m ; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 1.62 W/kg
SAR(1 g) = 0.696 W/kg ; SAR(10 g) = 0.356 W/kg
Maximum value of SAR (measured) = 1.27 W/kg



#21_LTE Band 5_10M_QPSK_1RB_49offset_Front_5mm_Ch20525

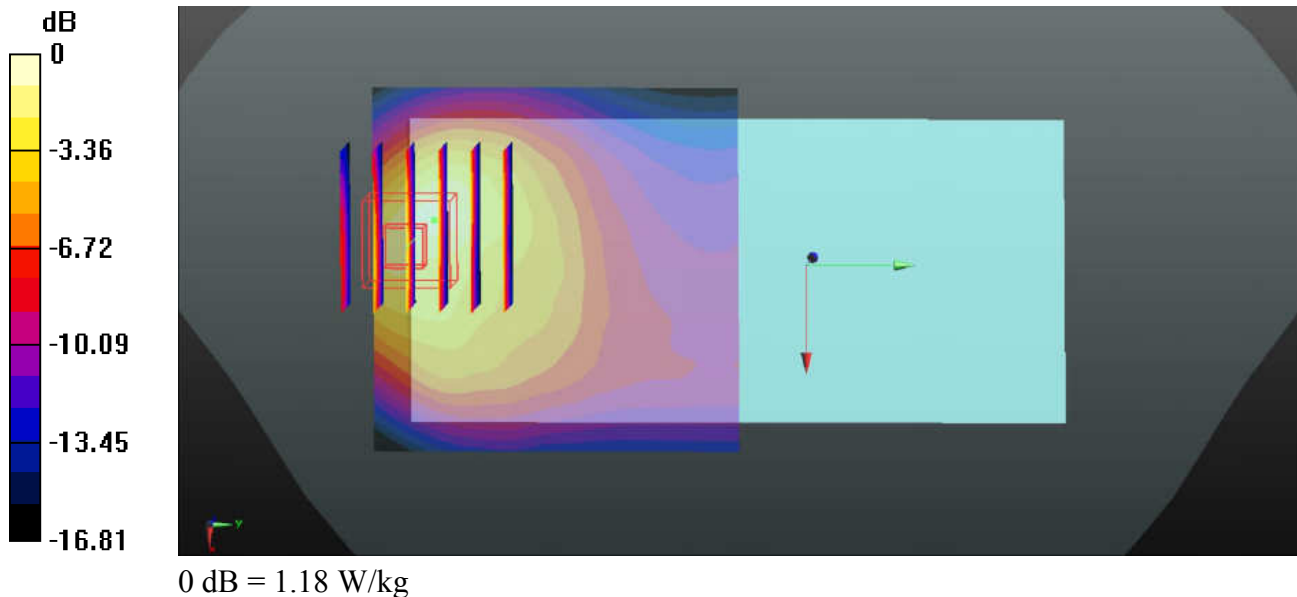
Communication System: UID 0, FDD-LTE (0); Frequency: 836.5 MHz; Duty Cycle: 1:1
Medium: MSL_835_Medium parameters used: $f = 836.5$ MHz; $\sigma = 0.997$ S/m; $\epsilon_r = 55.211$;
 $\rho = 1000 \text{ kg/m}^3$
Ambient Temperature : 23.3°C ; Liquid Temperature : 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3935; ConvF(10.33, 10.33, 10.33); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch20525/Area Scan (61x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 1.06 W/kg

Ch20525/Zoom Scan (6x6x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 10.13 V/m ; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 1.48 W/kg
SAR(1 g) = 0.687 W/kg ; SAR(10 g) = 0.358 W/kg
Maximum value of SAR (measured) = 1.18 W/kg



#22_LTE Band 66_20M_QPSK_1RB_99offset_Front_5mm_Ch132072

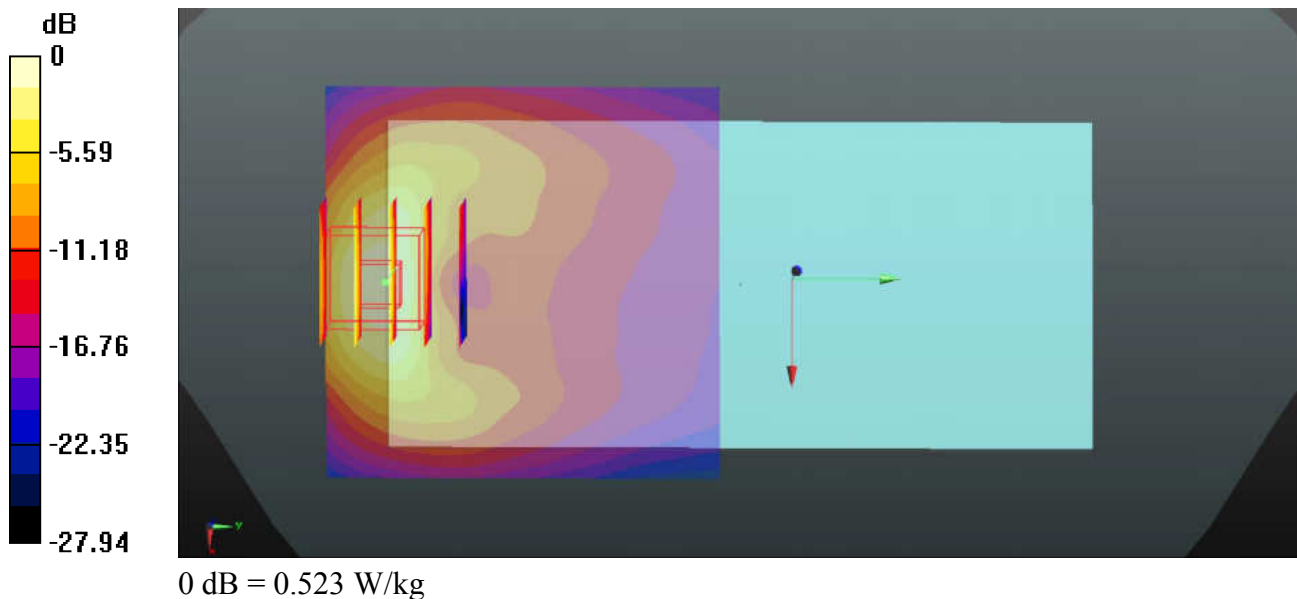
Communication System: UID 0, FDD-LTE (0); Frequency: 1720 MHz; Duty Cycle: 1:1
Medium: MSL_1750_Medium parameters used: $f = 1720$ MHz; $\sigma = 1.435$ S/m; $\epsilon_r = 54.803$;
 $\rho = 1000 \text{ kg/m}^3$
Ambient Temperature : 23.5 °C ; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3935; ConvF(8.71, 8.71, 8.71); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch132072/Area Scan (61x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.498 W/kg

Ch132072/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 2.366 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 0.665 W/kg
SAR(1 g) = 0.335 W/kg; SAR(10 g) = 0.154 W/kg
Maximum value of SAR (measured) = 0.523 W/kg



#23_LTE Band 2_20M_QPSK_1RB_0offset_Front_5mm_Ch18900

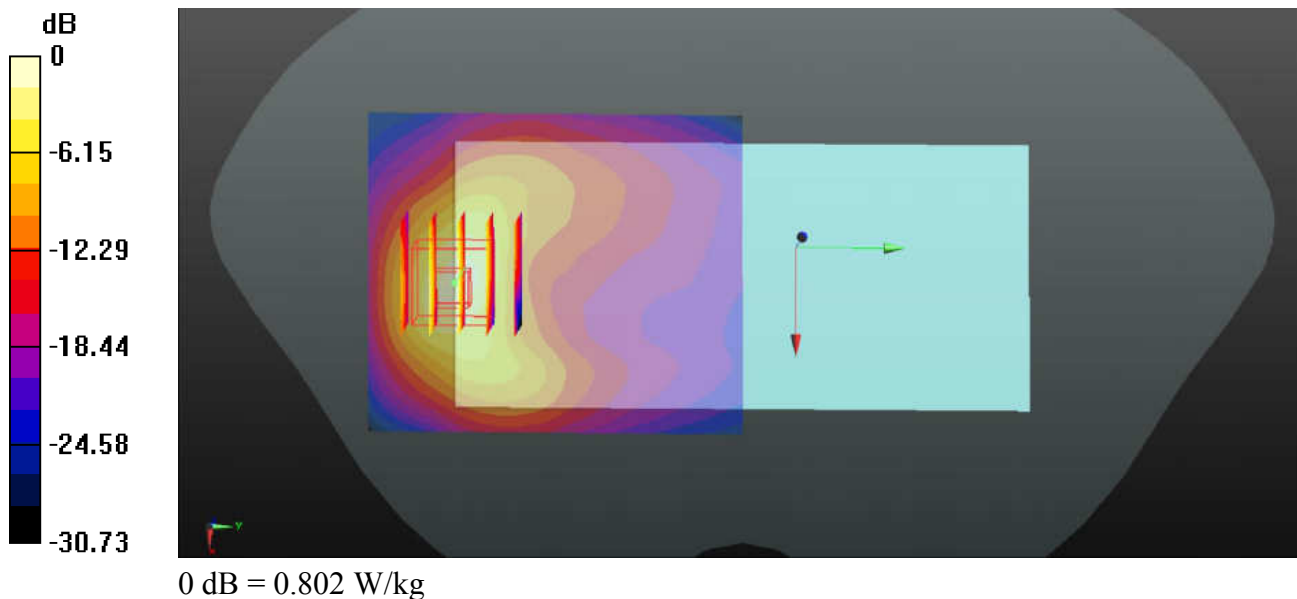
Communication System: UID 0, FDD-LTE (0); Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: MSL_1900_Medium parameters used: $f = 1880$ MHz; $\sigma = 1.538$ S/m; $\epsilon_r = 53.152$;
 $\rho = 1000 \text{ kg/m}^3$
Ambient Temperature : 23.4°C ; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3935; ConvF(8.3, 8.3, 8.3); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch18900/Area Scan (61x71x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.618 W/kg

Ch18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 1.963 V/m ; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 1.02 W/kg
SAR(1 g) = 0.480 W/kg ; SAR(10 g) = 0.209 W/kg
Maximum value of SAR (measured) = 0.802 W/kg



#24_LTE Band 41_20M_QPSK_1RB_99offset_Front_5mm_Ch40185

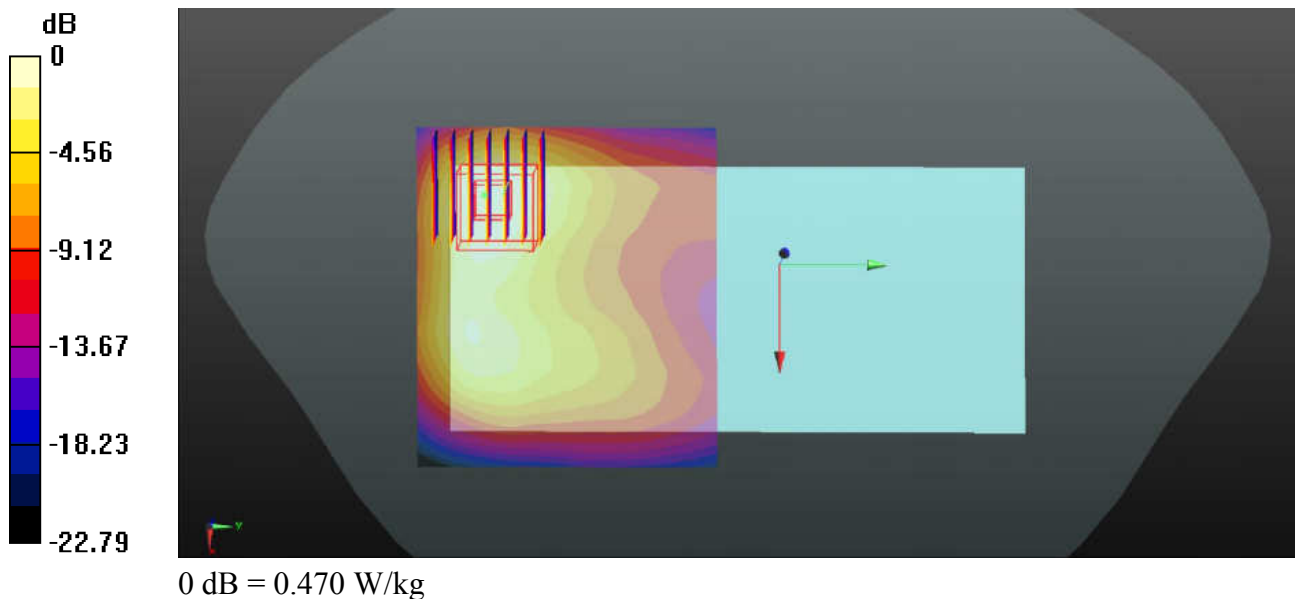
Communication System: UID 0, TDD-LTE (0); Frequency: 2549.5 MHz; Duty Cycle: 1:1.59
Medium: MSL_2600_Medium parameters used: $f = 2549.5$ MHz; $\sigma = 2.077$ S/m; $\epsilon_r = 53.265$;
 $\rho = 1000$ kg/m³
Ambient Temperature : 23.6 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3935; ConvF(7.71, 7.71, 7.71); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM $\mp$ Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch40185/Area Scan (81x71x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.530 W/kg

Ch40185/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 2.918 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.616 W/kg
SAR(1 g) = 0.282 W/kg; SAR(10 g) = 0.148 W/kg
Maximum value of SAR (measured) = 0.470 W/kg



#25_WCDMA Band V_RMC 12.2Kbps_Front_0mm_Ch4132

Communication System: UID 0, WCDMA (0); Frequency: 826.4 MHz; Duty Cycle: 1:1
 Medium: MSL_835_Medium parameters used: $f = 826.4$ MHz; $\sigma = 0.987$ S/m; $\epsilon_r = 55.309$;
 $\rho = 1000 \text{ kg/m}^3$
 Ambient Temperature : 23.3°C ; Liquid Temperature : 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3935; ConvF(10.33, 10.33, 10.33); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch4132/Area Scan (61x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 3.88 W/kg

Ch4132/Zoom Scan (7x6x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 6.109 V/m ; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 5.20 W/kg

SAR(1 g) = 2.03 W/kg ; SAR(10 g) = 1.01 W/kg

Maximum value of SAR (measured) = 3.49 W/kg

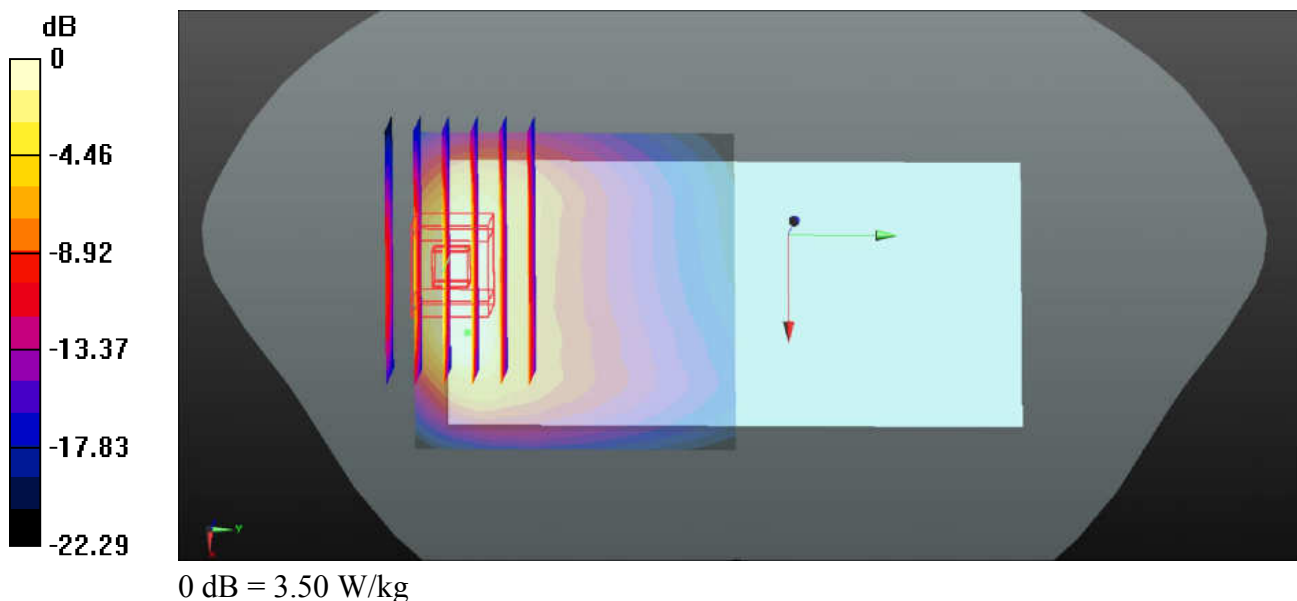
Ch4132/Zoom Scan (7x6x7)/Cube 1: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 6.109 V/m ; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 4.77 W/kg

SAR(1 g) = 2.03 W/kg ; SAR(10 g) = 0.988 W/kg

Maximum value of SAR (measured) = 3.50 W/kg



#26_WCDMA Band IV_RMC 12.2Kbps_Bottom side_0mm_Ch1513

Communication System: UID 0, WCDMA (0); Frequency: 1752.6 MHz; Duty Cycle: 1:1
Medium: MSL_1750_Medium parameters used: $f = 1752.6$ MHz; $\sigma = 1.469$ S/m; $\epsilon_r = 54.704$;
 $\rho = 1000$ kg/m³
Ambient Temperature : 23.5 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3935; ConvF(8.71, 8.71, 8.71); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch1513/Area Scan (31x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 12.6 W/kg

Ch1513/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 76.56 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 18.2 W/kg
SAR(1 g) = 7.32 W/kg; SAR(10 g) = 2.93 W/kg
Maximum value of SAR (measured) = 14.6 W/kg

