

WCDMA1900-BII_CH9262 Rear

Date: 3/17/2021

Electronics: DAE4 Sn536

Medium: head 1900 MHz

Medium parameters used: $f = 1852.4$; $\sigma = 1.382$ mho/m; $\epsilon_r = 40.05$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C

Communication System: WCDMA1900-BII 1852.4 Duty Cycle: 1: 1

Probe: EX3DV4 – SN7307 ConvF(8.33,8.33,8.33)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.05 W/kg

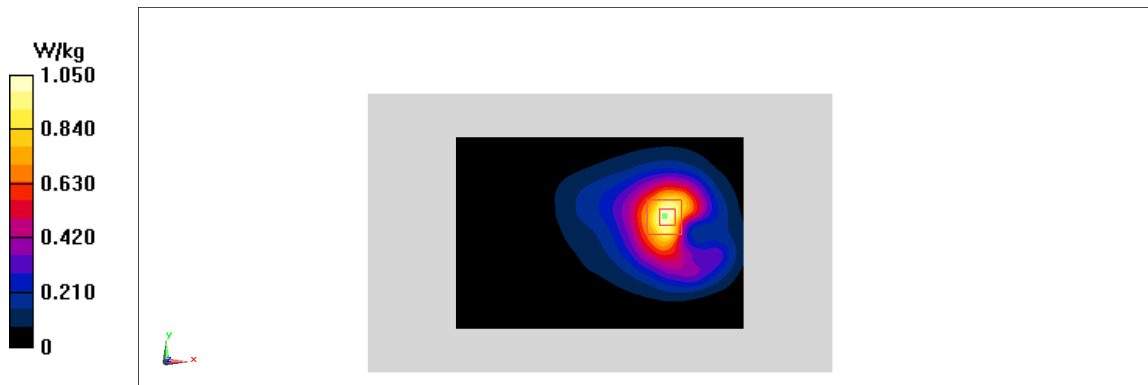
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.356 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.21 W/kg

SAR(1 g) = 0.747 W/kg; SAR(10 g) = 0.44 W/kg

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

**Fig A.7**

WCDMA1700-BIV_CH1312 Left Cheek

Date: 3/16/2021

Electronics: DAE4 Sn536

Medium: head 1750 MHz

Medium parameters used: $f = 1712.4$; $\sigma = 1.341$ mho/m; $\epsilon_r = 40.87$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C

Communication System: WCDMA1700-BIV 1712.4 Duty Cycle: 1: 1

Probe: EX3DV4 – SN7307 ConvF(8.64,8.64,8.64)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.368 W/kg

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

Reference Value = 3.704 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.455 W/kg

SAR(1 g) = 0.296 W/kg; SAR(10 g) = 0.192 W/kg

Maximum value of SAR (measured) = 0.386 W/kg

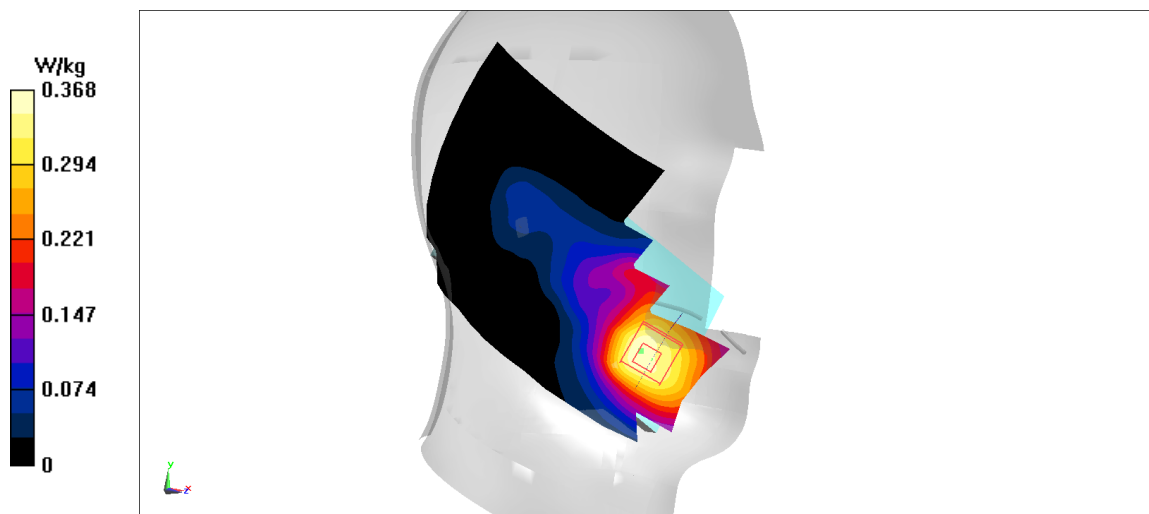


Fig A.8

WCDMA1700-BIV_CH1312 Rear

Date: 3/16/2021

Electronics: DAE4 Sn536

Medium: head 1750 MHz

Medium parameters used: $f = 1712.4$; $\sigma = 1.341$ mho/m; $\epsilon_r = 40.87$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C

Communication System: WCDMA1700-BIV 1712.4 Duty Cycle: 1: 1

Probe: EX3DV4 – SN7307 ConvF(8.64,8.64,8.64)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.47 W/kg

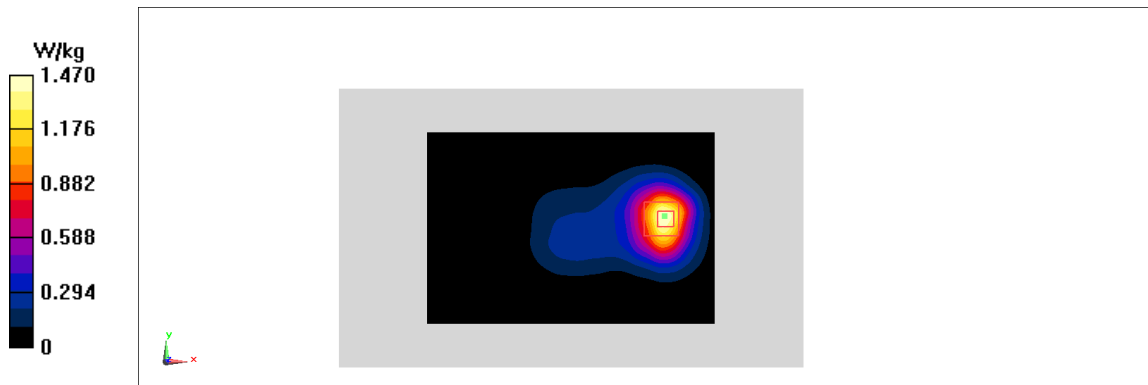
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.97 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.71 W/kg

SAR(1 g) = 0.954 W/kg; SAR(10 g) = 0.539 W/kg

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

**Fig A.9**

WCDMA1700-BIV_CH1312 Rear

Date: 3/16/2021

Electronics: DAE4 Sn536

Medium: head 1750 MHz

Medium parameters used: $f = 1712.4$; $\sigma = 1.341$ mho/m; $\epsilon_r = 40.87$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C

Communication System: WCDMA1700-BIV 1712.4 Duty Cycle: 1: 1

Probe: EX3DV4 – SN7307 ConvF(8.64,8.64,8.64)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.1 W/kg

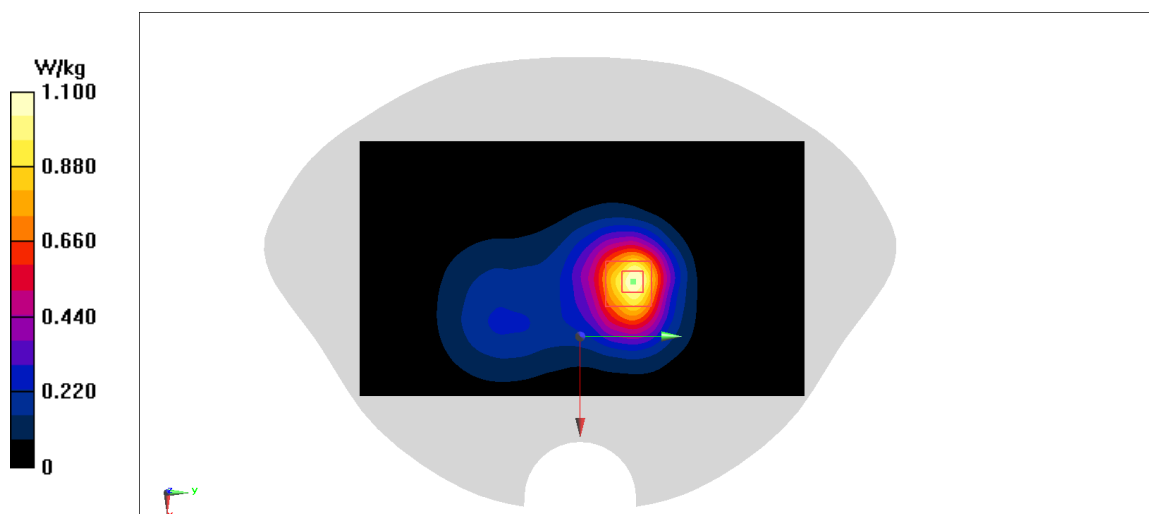
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.02 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.3 W/kg

SAR(1 g) = 0.713 W/kg; SAR(10 g) = 0.407 W/kg

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

**Fig A.10**

WCDMA850-BV_CH4233 Right Cheek

Date: 3/15/2021

Electronics: DAE4 Sn536

Medium: head 835 MHz

Medium parameters used: $f = 846.6$; $\sigma = 0.903$ mho/m; $\epsilon_r = 41.09$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C

Communication System: WCDMA850-BV 846.6 Duty Cycle: 1: 1

Probe: EX3DV4 – SN7307 ConvF(10.2,10.2,10.2)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.521 W/kg

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

Reference Value = 1.689 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.692 W/kg

SAR(1 g) = 0.342 W/kg; SAR(10 g) = 0.208 W/kg

Maximum value of SAR (measured) = 0.504 W/kg

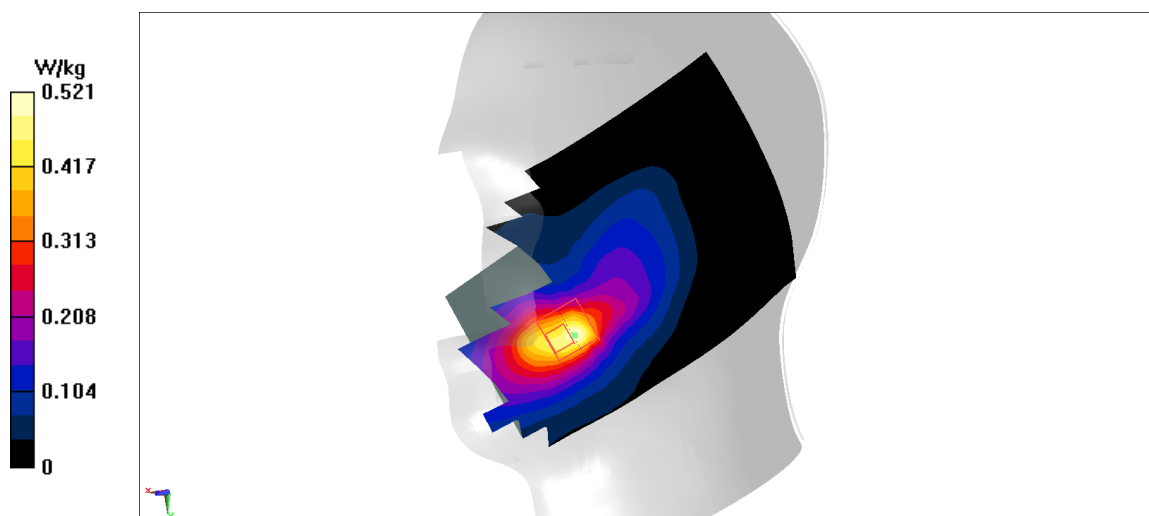


Fig A.11

WCDMA850-BV_CH4132 Rear

Date: 3/15/2021

Electronics: DAE4 Sn536

Medium: head 835 MHz

Medium parameters used: $f = 826.4$; $\sigma = 0.883$ mho/m; $\epsilon_r = 41.11$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C

Communication System: WCDMA850-BV 826.4 Duty Cycle: 1: 1

Probe: EX3DV4 – SN7307 ConvF(10.2,10.2,10.2)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.518 W/kg

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

Reference Value = 21.05 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.588 W/kg

SAR(1 g) = 0.409 W/kg; SAR(10 g) = 0.29 W/kg

Maximum value of SAR (measured) = 0.522 W/kg

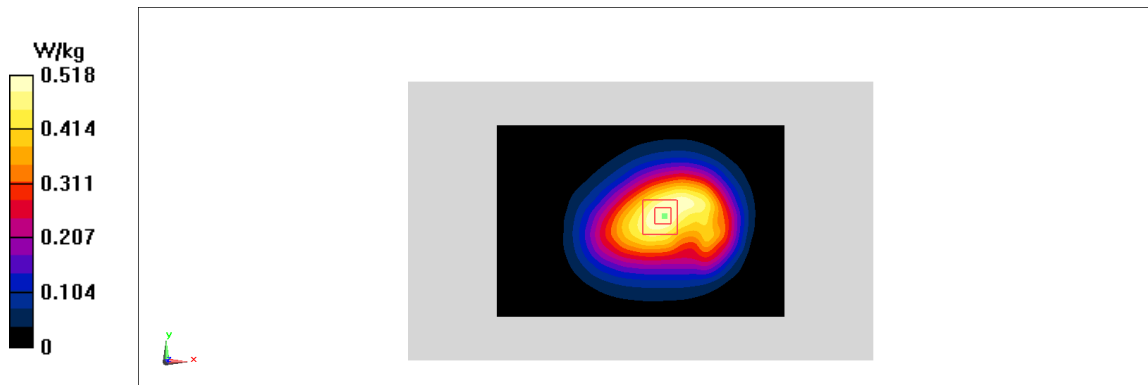


Fig A.12

LTE1900-FDD2_CH19100 Left Cheek

Date: 3/17/2021

Electronics: DAE4 Sn536

Medium: head 1900 MHz

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.428$ mho/m; $\epsilon_r = 39.99$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C

Communication System: LTE1900-FDD2 1900 MHz Duty Cycle: 1: 1

Probe: EX3DV4 – SN7307 ConvF(8.33,8.33,8.33)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.822 W/kg

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

Reference Value = 4.32 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 1.01 W/kg

SAR(1 g) = 0.617 W/kg; SAR(10 g) = 0.379 W/kg

Maximum value of SAR (measured) = 0.872 W/kg

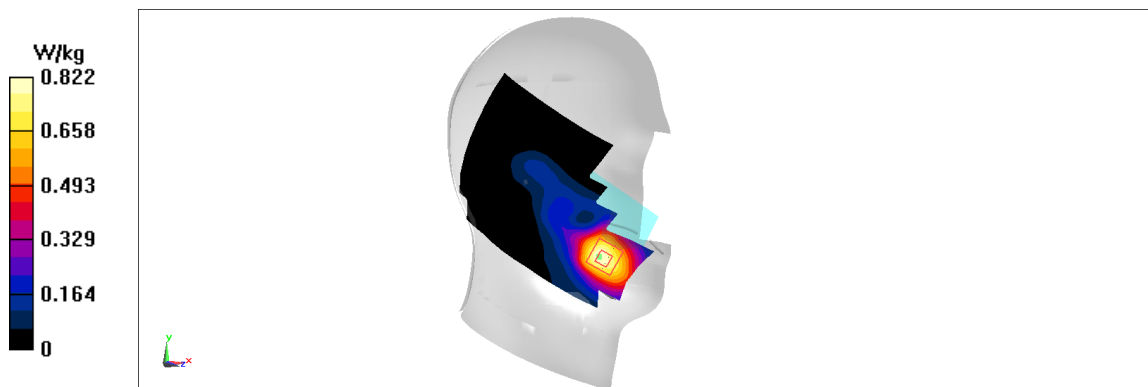


Fig A.13

LTE1900-FDD2_CH18700 Rear

Date: 3/17/2021

Electronics: DAE4 Sn536

Medium: head 1900 MHz

Medium parameters used: $f = 1860$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 40.04$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C

Communication System: LTE1900-FDD2 1860 MHz Duty Cycle: 1: 1

Probe: EX3DV4 – SN7307 ConvF(8.33,8.33,8.33)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

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

Reference Value = 16.3 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.5 W/kg

SAR(1 g) = 0.89 W/kg; SAR(10 g) = 0.509 W/kg

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

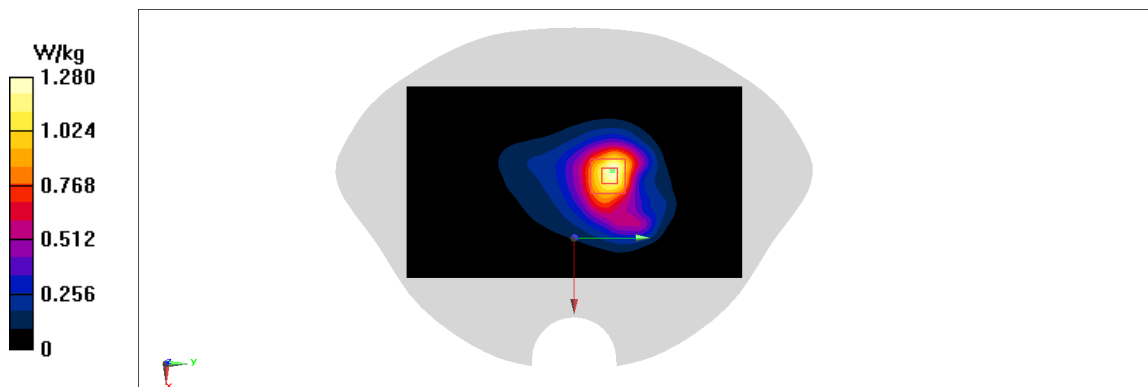


Fig A.14

LTE1900-FDD2_CH18700 Rear

Date: 3/17/2021

Electronics: DAE4 Sn536

Medium: head 1900 MHz

Medium parameters used: $f = 1860$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 40.04$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C

Communication System: LTE1900-FDD2 1860 MHz Duty Cycle: 1: 1

Probe: EX3DV4 – SN7307 ConvF(8.33,8.33,8.33)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

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

Reference Value = 15.75 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 1.63 W/kg

SAR(1 g) = 0.973 W/kg; SAR(10 g) = 0.572 W/kg

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

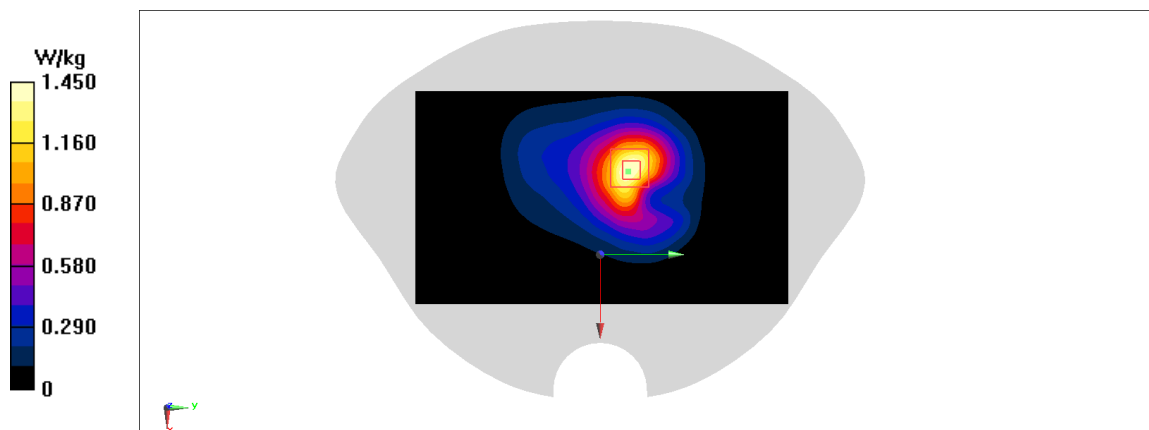


Fig A.15

LTE850-FDD5_CH20600 Right Cheek

Date: 3/15/2021

Electronics: DAE4 Sn536

Medium: head 835 MHz

Medium parameters used: $f = 844$ MHz; $\sigma = 0.901$ mho/m; $\epsilon_r = 41.09$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C

Communication System: LTE850-FDD5 844 MHz Duty Cycle: 1: 1

Probe: EX3DV4 – SN7307 ConvF(10.2,10.2,10.2)

Area Scan (81x141x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.911 W/kg

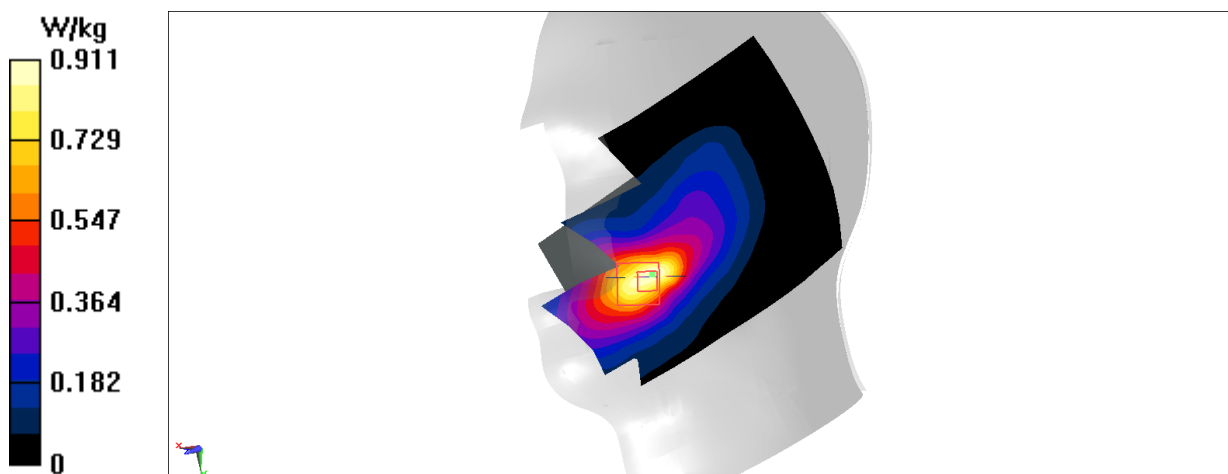
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.309 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.28 W/kg

SAR(1 g) = 0.694 W/kg; SAR(10 g) = 0.426 W/kg

Maximum value of SAR (measured) = 1.04 W/kg

**Fig A.16**

LTE850-FDD5_CH20450 Rear

Date: 3/15/2021

Electronics: DAE4 Sn536

Medium: head 835 MHz

Medium parameters used: $f = 829$ MHz; $\sigma = 0.886$ mho/m; $\epsilon_r = 41.11$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C

Communication System: LTE850-FDD5 829 MHz Duty Cycle: 1: 1

Probe: EX3DV4 – SN7307 ConvF(10.2,10.2,10.2)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

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

Reference Value = 28.36 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.41 W/kg

SAR(1 g) = 0.971 W/kg; SAR(10 g) = 0.686 W/kg

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

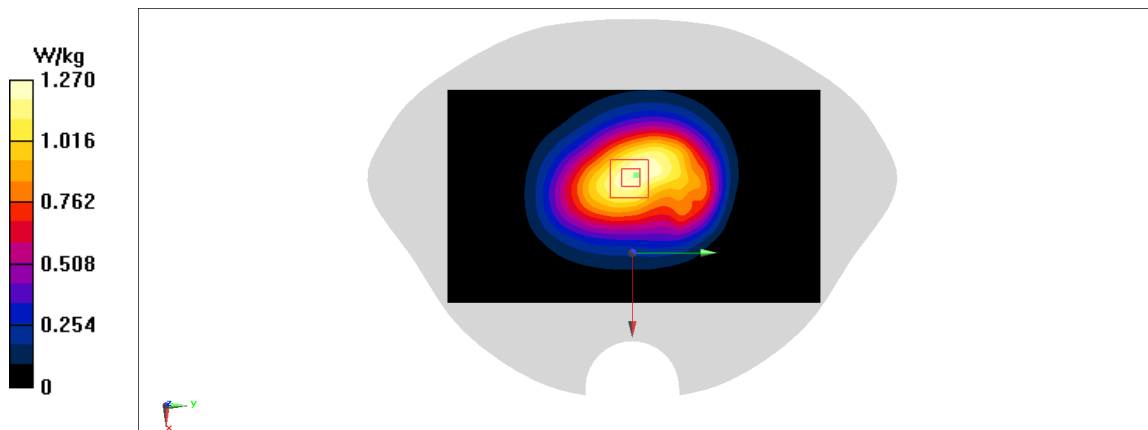


Fig A.17

LTE2500-FDD7_CH20850 Left Cheek

Date: 3/19/2021

Electronics: DAE4 Sn536

Medium: head 2600 MHz

Medium parameters used: $f = 2510$ MHz; $\sigma = 1.84$ mho/m; $\epsilon_r = 39.17$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C

Communication System: LTE2500-FDD7 2510 MHz Duty Cycle: 1: 1

Probe: EX3DV4 – SN7307 ConvF(7.61,7.61,7.61)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.816 W/kg

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

Reference Value = 4.852 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.01 W/kg

SAR(1 g) = 0.622 W/kg; SAR(10 g) = 0.323 W/kg

Maximum value of SAR (measured) = 0.852 W/kg

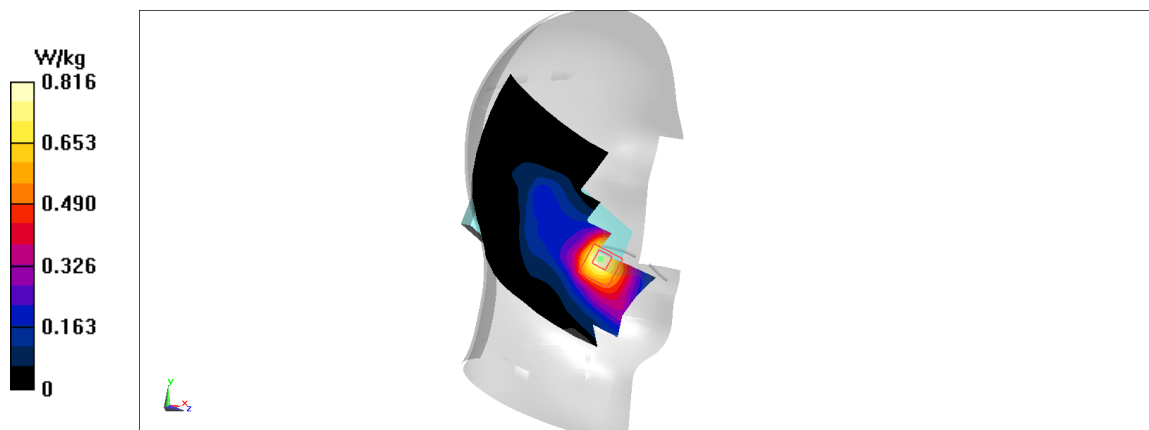


Fig A.18

LTE2500-FDD7_CH21100 Rear unfold

Date: 3/19/2021

Electronics: DAE4 Sn536

Medium: head 2600 MHz

Medium parameters used: $f = 2535$ MHz; $\sigma = 1.863$ mho/m; $\epsilon_r = 39.14$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C

Communication System: LTE2500-FDD7 2535 MHz Duty Cycle: 1: 1

Probe: EX3DV4 – SN7307 ConvF(7.61,7.61,7.61)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.858 W/kg

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

Reference Value = 13.02 V/m; Power Drift = -0.1 dB

Peak SAR (extrapolated) = 1.07 W/kg

SAR(1 g) = 0.53 W/kg; SAR(10 g) = 0.285 W/kg

Maximum value of SAR (measured) = 0.859 W/kg

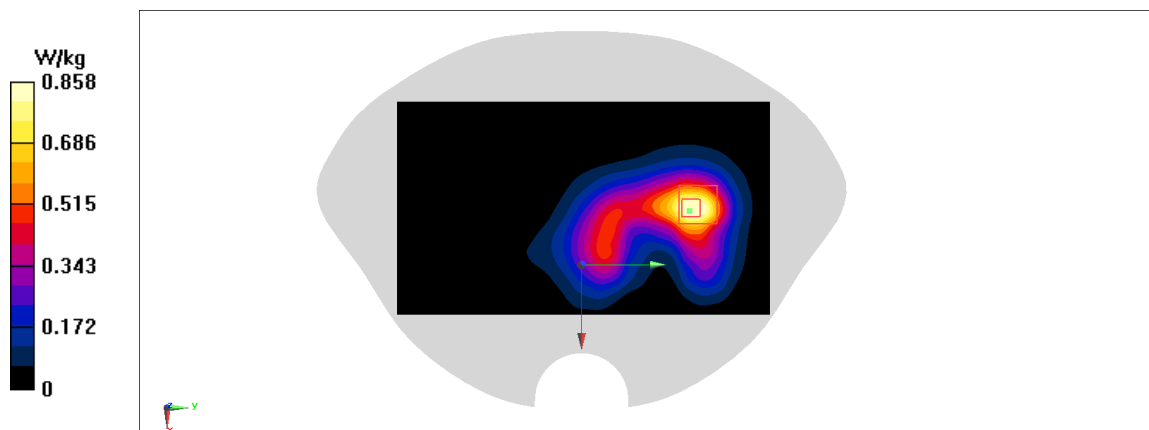


Fig A.19

LTE2500-FDD7_CH20850 Rearunfold

Date: 3/19/2021

Electronics: DAE4 Sn536

Medium: head 2600 MHz

Medium parameters used: $f = 2510$ MHz; $\sigma = 1.84$ mho/m; $\epsilon_r = 39.17$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C

Communication System: LTE2500-FDD7 2510 MHz Duty Cycle: 1: 1

Probe: EX3DV4 – SN7307 ConvF(7.61,7.61,7.61)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

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

Reference Value = 17.37 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.25 W/kg

SAR(1 g) = 0.638 W/kg; SAR(10 g) = 0.349 W/kg

Maximum value of SAR (measured) = 0.998 W/kg

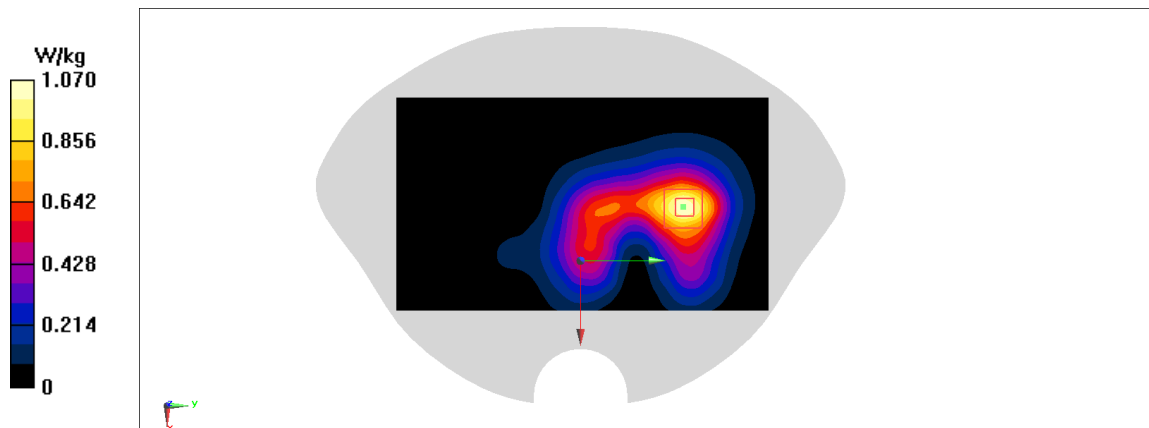


Fig A.20

LTE700-FDD12_CH23130 Right Cheek

Date: 3/14/2021

Electronics: DAE4 Sn536

Medium: head 750 MHz

Medium parameters used: $f = 711$ MHz; $\sigma = 0.851$ mho/m; $\epsilon_r = 41.4$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C

Communication System: LTE700-FDD12 711 MHz Duty Cycle: 1: 1

Probe: EX3DV4 – SN7307 ConvF(10.41,10.41,10.41)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.21 W/kg

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

Reference Value = 1.896 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.231 W/kg

SAR(1 g) = 0.129 W/kg; SAR(10 g) = 0.0849 W/kg

Maximum value of SAR (measured) = 0.185 W/kg

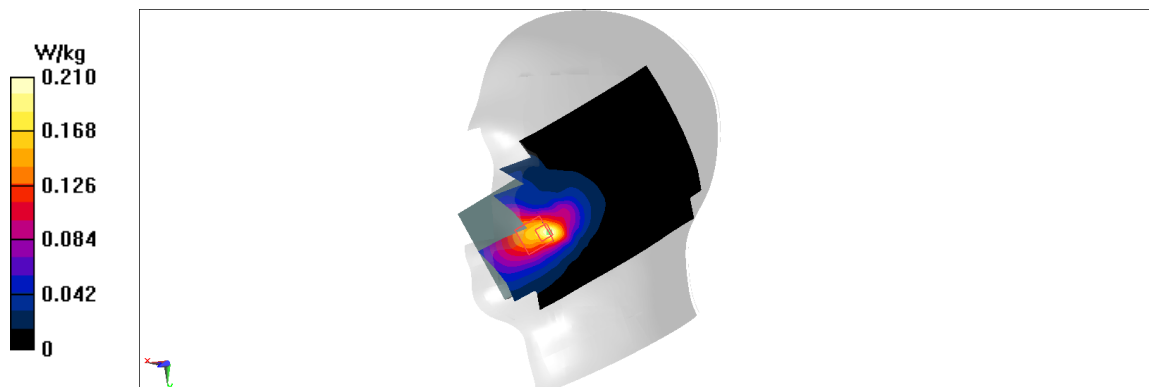


Fig A.21

LTE700-FDD12_CH23060 Rear unfold

Date: 3/14/2021

Electronics: DAE4 Sn536

Medium: head 750 MHz

Medium parameters used: $f = 704$ MHz; $\sigma = 0.844$ mho/m; $\epsilon_r = 41.41$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C

Communication System: LTE700-FDD12 704 MHz Duty Cycle: 1: 1

Probe: EX3DV4 – SN7307 ConvF(10.41,10.41,10.41)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.423 W/kg

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

Reference Value = 15.82 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 0.438 W/kg

SAR(1 g) = 0.321 W/kg; SAR(10 g) = 0.234 W/kg

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

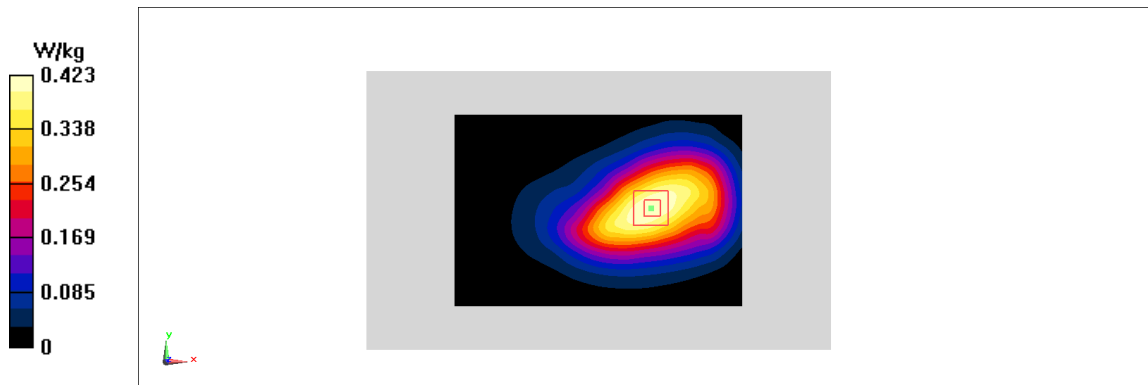


Fig A.22

LTE750-FDD13_CH23230 Left Cheek

Date: 3/14/2021

Electronics: DAE4 Sn536

Medium: head 750 MHz

Medium parameters used: $f = 782$ MHz; $\sigma = 0.918$ mho/m; $\epsilon_r = 41.31$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C

Communication System: LTE750-FDD13 782 MHz Duty Cycle: 1: 1

Probe: EX3DV4 – SN7307 ConvF(10.41,10.41,10.41)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.431 W/kg

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

Reference Value = 5.459 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.541 W/kg

SAR(1 g) = 0.345 W/kg; SAR(10 g) = 0.221 W/kg

SAR(1 g) = 0.345 W/kg; SAR(10 g) = 0.221 W/kg

Maximum value of SAR (measured) = 0.465 W/kg

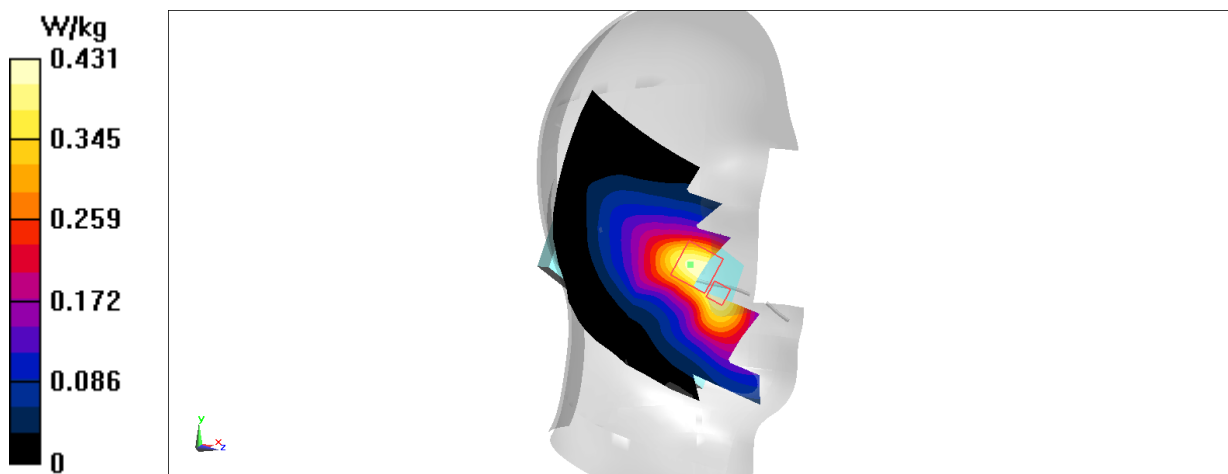


Fig A.23

LTE750-FDD13_CH23230 Rear

Date: 3/14/2021

Electronics: DAE4 Sn536

Medium: head 750 MHz

Medium parameters used: $f = 782$ MHz; $\sigma = 0.918$ mho/m; $\epsilon_r = 41.31$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C

Communication System: LTE750-FDD13 782 MHz Duty Cycle: 1: 1

Probe: EX3DV4 – SN7307 ConvF(10.41,10.41,10.41)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.46 W/kg

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

Reference Value = 32.1 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 1.57 W/kg

SAR(1 g) = 1.01 W/kg; SAR(10 g) = 0.729 W/kg

Maximum value of SAR (measured) = 1.39 W/kg

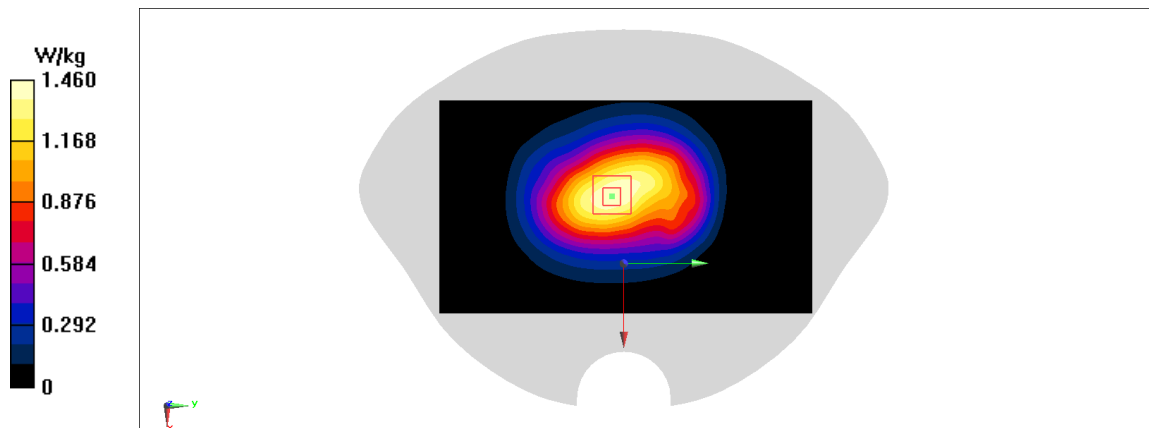


Fig A.24

LTE1700-FDD66_CH132572 Left Cheek

Date: 3/16/2021

Electronics: DAE4 Sn536

Medium: head 1750 MHz

 Medium parameters used: $f = 1770$ MHz; $\sigma = 1.396$ mho/m; $\epsilon_r = 40.76$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C

Communication System: LTE1700-FDD66 1770 MHz Duty Cycle: 1: 1

Probe: EX3DV4 – SN7307 ConvF(8.64,8.64,8.64)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.352 W/kg

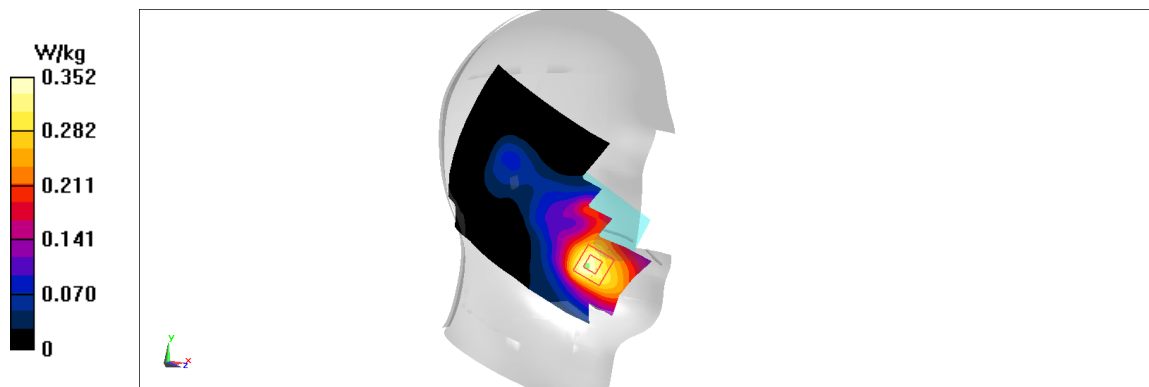
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.817 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 0.429 W/kg

SAR(1 g) = 0.267 W/kg; SAR(10 g) = 0.165 W/kg

Maximum value of SAR (measured) = 0.358 W/kg


Fig A.25

LTE1700-FDD66_CH132072 Rear

Date: 3/16/2021

Electronics: DAE4 Sn536

Medium: head 1750 MHz

Medium parameters used: $f = 1720$ MHz; $\sigma = 1.361$ mho/m; $\epsilon_r = 40.89$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C

Communication System: LTE1700-FDD66 1720 MHz Duty Cycle: 1: 1

Probe: EX3DV4 – SN7307 ConvF(8.64,8.64,8.64)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

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

Reference Value = 11.15 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 1.48 W/kg

SAR(1 g) = 0.815 W/kg; SAR(10 g) = 0.457 W/kg

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

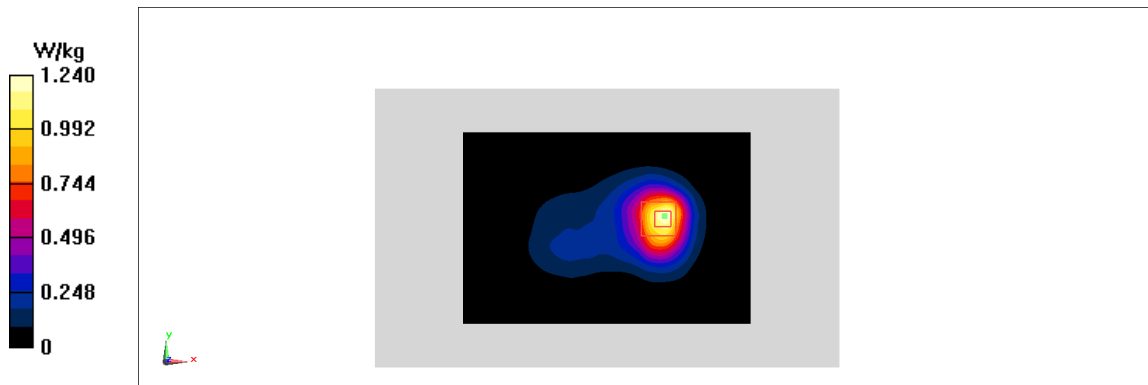


Fig A.26

LTE1700-FDD66_CH132072 Rear

Date: 3/16/2021

Electronics: DAE4 Sn536

Medium: head 1750 MHz

Medium parameters used: $f = 1720$ MHz; $\sigma = 1.361$ mho/m; $\epsilon_r = 40.89$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C

Communication System: LTE1700-FDD66 1720 MHz Duty Cycle: 1: 1

Probe: EX3DV4 – SN7307 ConvF(8.64,8.64,8.64)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.939 W/kg

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

Reference Value = 11.89 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 1.12 W/kg

SAR(1 g) = 0.659 W/kg; SAR(10 g) = 0.386 W/kg

Maximum value of SAR (measured) = 0.938 W/kg

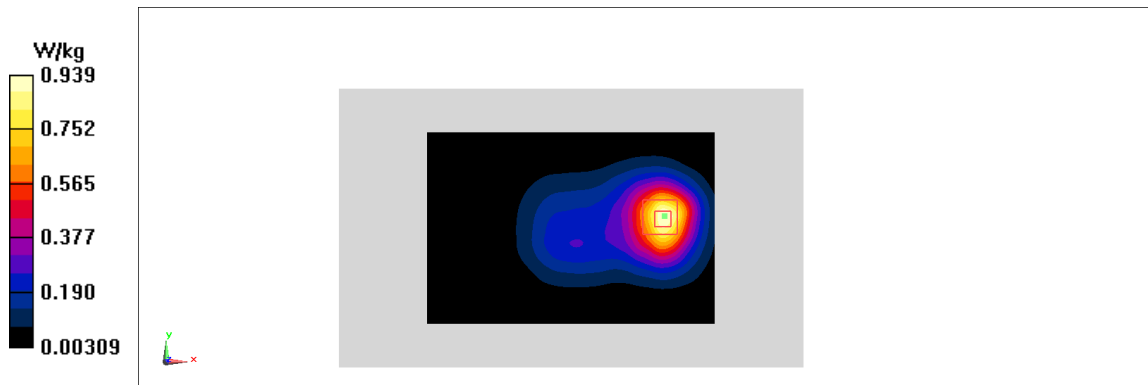


Fig A.27

WLAN2450_CH11 Right Cheek

Date: 3/18/2021

Electronics: DAE4 Sn536

Medium: head 2450 MHz

Medium parameters used: $f = 2462$; $\sigma = 1.791$ mho/m; $\epsilon_r = 38.98$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C

Communication System: WLAN2450 2462 Duty Cycle: 1: 1

Probe: EX3DV4 – SN7307 ConvF(7.77,7.77,7.77)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.481 W/kg

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

Reference Value = 5.039 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.958 W/kg

SAR(1 g) = 0.307 W/kg; SAR(10 g) = 0.168 W/kg

Maximum value of SAR (measured) = 0.569 W/kg

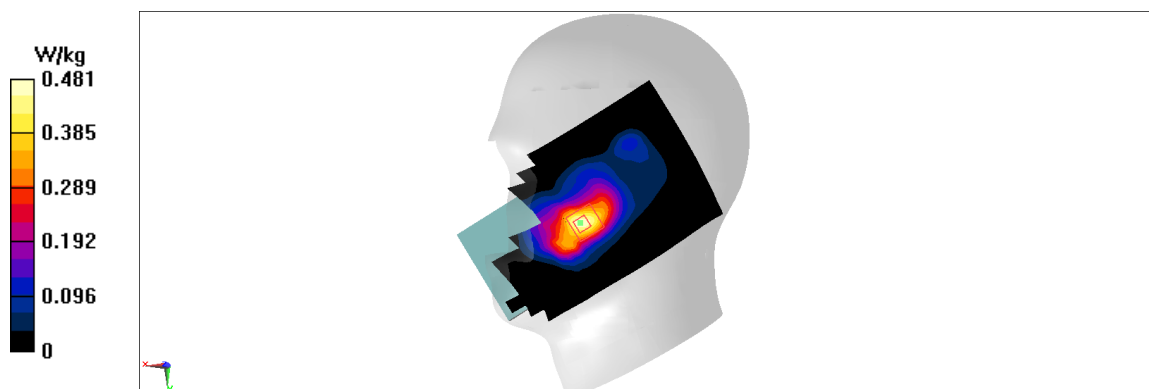


Fig A.28

WLAN2450_CH11 Rear unfold

Date: 3/18/2021

Electronics: DAE4 Sn536

Medium: head 2450 MHz

Medium parameters used: $f = 2462$; $\sigma = 1.791$ mho/m; $\epsilon_r = 38.98$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C

Communication System: WLAN2450 2462 Duty Cycle: 1: 1

Probe: EX3DV4 – SN7307 ConvF(7.77,7.77,7.77)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.195 W/kg

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

Reference Value = 3.182 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.216 W/kg

SAR(1 g) = 0.111 W/kg; SAR(10 g) = 0.06 W/kg

Maximum value of SAR (measured) = 0.172 W/kg

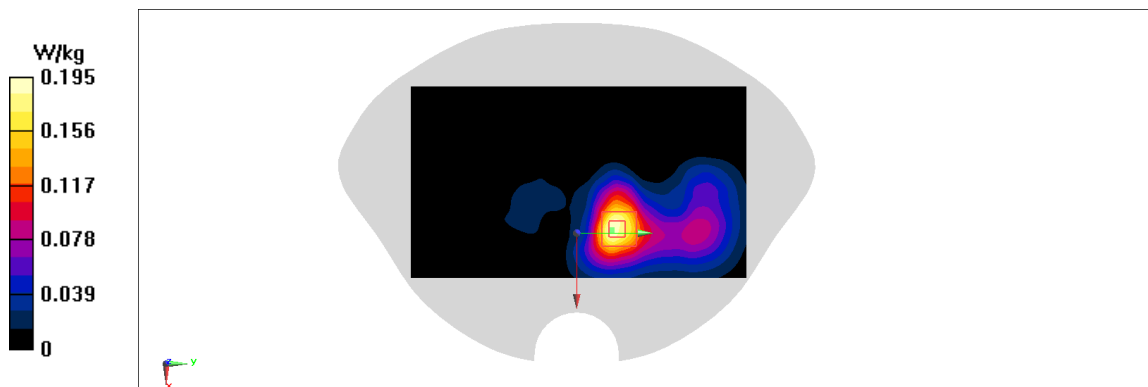


Fig A.29

I.6 System Verification Results

750 MHz

Date: 3/14/2021

Electronics: DAE4 Sn536

Medium: Head 750 MHz

Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.888 \text{ mho/m}$; $\epsilon_r = 41.35$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.5°C Liquid Temperature: 22.3°C

Communication System: CW Frequency: 750 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7307 ConvF(10.41,10.41,10.41)

System Validation /Area Scan (81x191x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Reference Value = 60.48 V/m; Power Drift = -0.08

Fast SAR: SAR(1 g) = 2.12 W/kg; SAR(10 g) = 1.37 W/kg

Maximum value of SAR (interpolated) = 2.85 W/kg

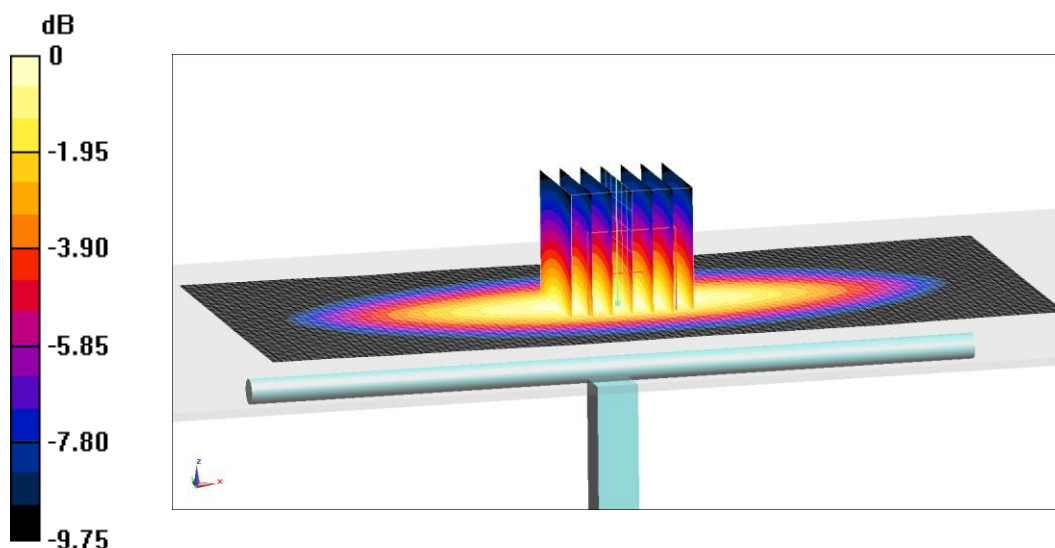
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value =60.48 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 3.25 W/kg

SAR(1 g) = 2.13 W/kg; SAR(10 g) = 1.41 W/kg

Maximum value of SAR (measured) = 2.86 W/kg



0 dB = 2.86 W/kg = 4.56 dB W/kg

Fig.B.1 validation 750 MHz 250mW

835 MHz

Date: 3/15/2021

Electronics: DAE4 Sn536

Medium: Head 835 MHz

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.892 \text{ mho/m}$; $\epsilon_r = 41.1$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.5°C Liquid Temperature: 22.3°C

Communication System: CW Frequency: 835 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7307 ConvF(10.2,10.2,10.2)

System Validation /Area Scan (81x191x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Reference Value = 61.96 V/m; Power Drift = 0.06

Fast SAR: SAR(1 g) = 2.38 W/kg; SAR(10 g) = 1.53 W/kg

Maximum value of SAR (interpolated) = 3.19 W/kg

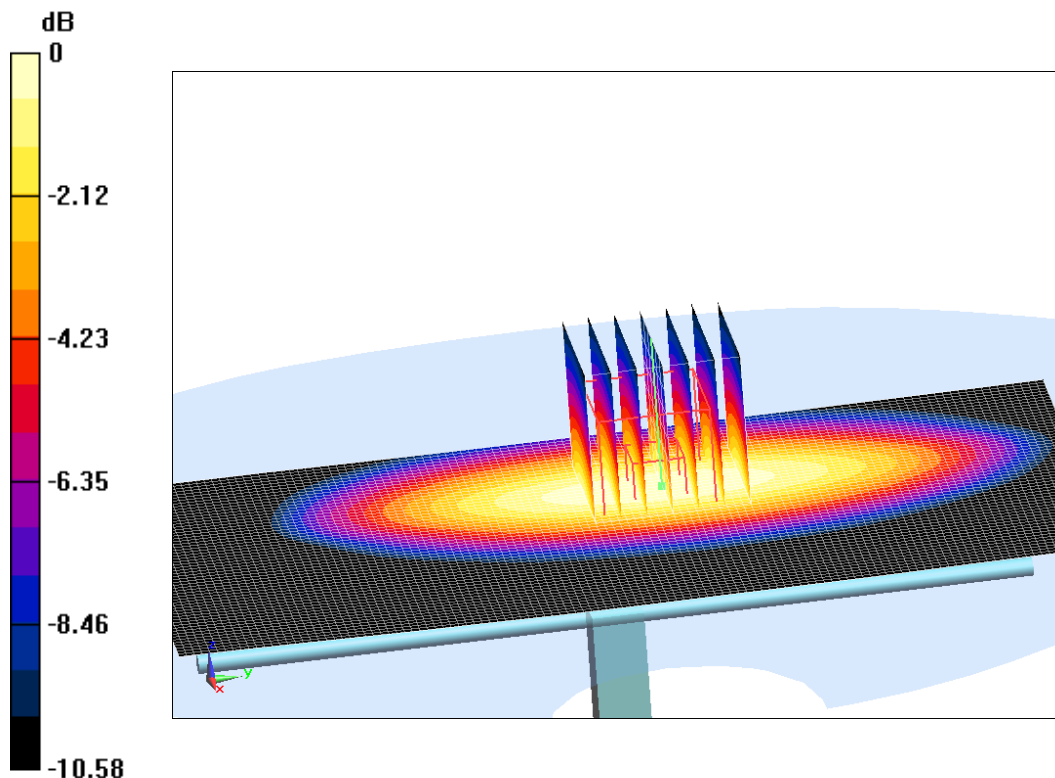
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value =61.96 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 3.61 W/kg

SAR(1 g) = 2.37 W/kg; SAR(10 g) = 1.57 W/kg

Maximum value of SAR (measured) = 3.32 W/kg



0 dB = 3.32 W/kg = 5.21 dB W/kg

Fig.B.2 validation 835 MHz 250mW

1750 MHz

Date: 3/16/2021

Electronics: DAE4 Sn536

Medium: Head 1750 MHz

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.377$ mho/m; $\epsilon_r = 40.82$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C Liquid Temperature: 22.3°C

Communication System: CW Frequency: 1750 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7307 ConvF(8.64,8.64,8.64)

System Validation /Area Scan (81x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Reference Value = 107.9 V/m; Power Drift = -0.03

Fast SAR: SAR(1 g) = 9.31 W/kg; SAR(10 g) = 4.69 W/kg

Maximum value of SAR (interpolated) = 14.15 W/kg

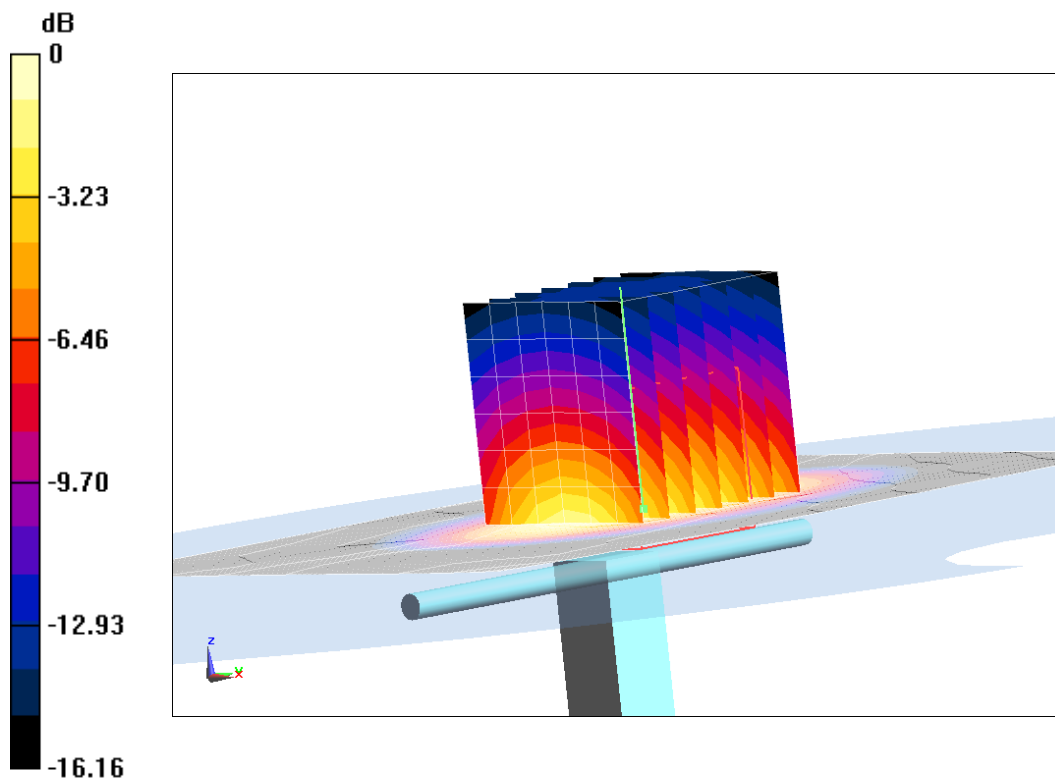
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 107.9 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 16.79 W/kg

SAR(1 g) = 9.14 W/kg; SAR(10 g) = 4.78 W/kg

Maximum value of SAR (measured) = 14.3 W/kg



0 dB = 14.3 W/kg = 11.55 dB W/kg

Fig.B.3 validation 1750 MHz 250mW

1900 MHz

Date: 3/17/2021

Electronics: DAE4 Sn536

Medium: Head 1900 MHz

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.428$ mho/m; $\epsilon_r = 39.99$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C Liquid Temperature: 22.3°C

Communication System: CW Frequency: 1900 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7307 ConvF(8.33,8.33,8.33)

System Validation /Area Scan (81x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Reference Value = 109.75 V/m; Power Drift = -0.02

Fast SAR: SAR(1 g) = 9.87 W/kg; SAR(10 g) = 5.09 W/kg

Maximum value of SAR (interpolated) = 14.95 W/kg

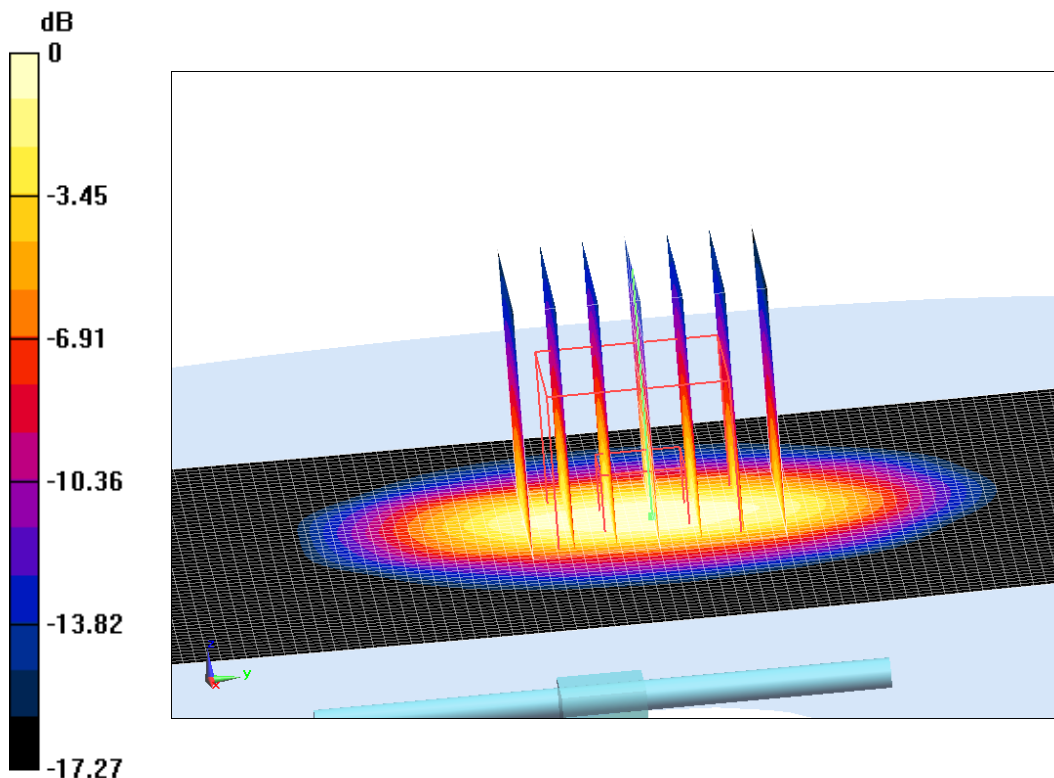
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 109.75 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 18.43 W/kg

SAR(1 g) = 9.9 W/kg; SAR(10 g) = 5.23 W/kg

Maximum value of SAR (measured) = 15.08 W/kg



0 dB = 15.08 W/kg = 11.78 dB W/kg

Fig.B.4 validation 1900 MHz 250mW

2450 MHz

Date: 3/18/2021

Electronics: DAE4 Sn536

Medium: Head 2450 MHz

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.78$ mho/m; $\epsilon_r = 38.99$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C Liquid Temperature: 22.3°C

Communication System: CW Frequency: 2450 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7307 ConvF(7.77,7.77,7.77)

System Validation /Area Scan (81x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Reference Value = 118.1 V/m; Power Drift = 0.04

Fast SAR: SAR(1 g) = 12.95 W/kg; SAR(10 g) = 6.05 W/kg

Maximum value of SAR (interpolated) = 21.38 W/kg

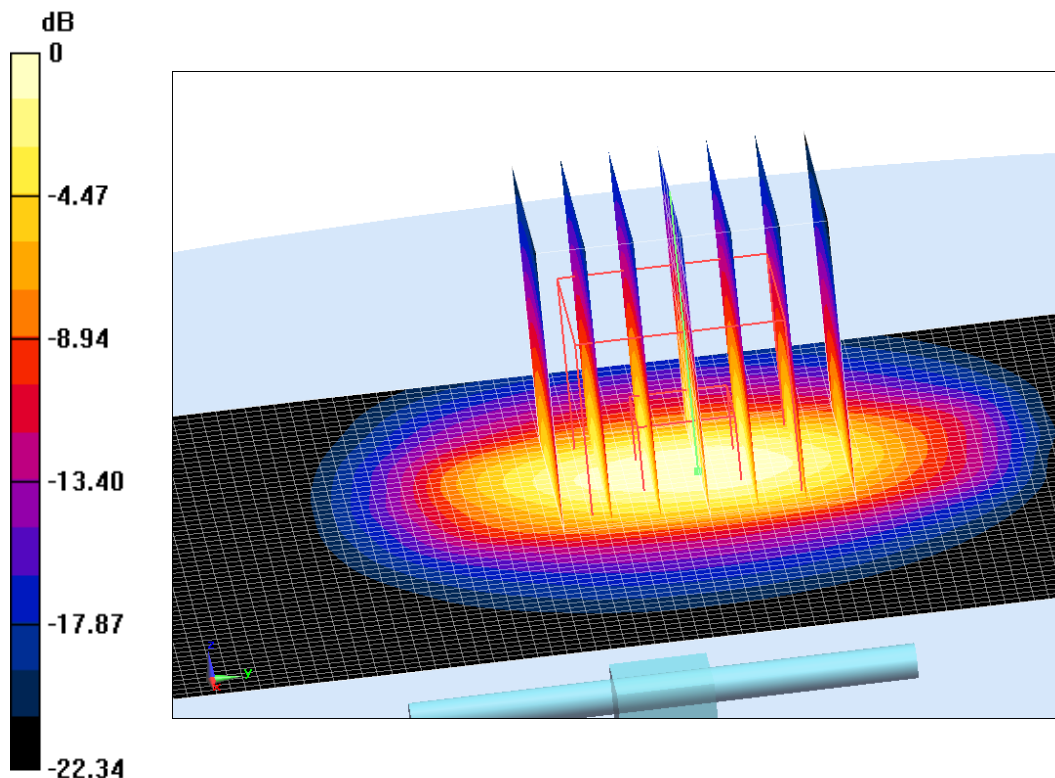
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 118.1 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 26.32 W/kg

SAR(1 g) = 12.9 W/kg; SAR(10 g) = 6.2 W/kg

Maximum value of SAR (measured) = 21.77 W/kg



0 dB = 21.77 W/kg = 13.38 dB W/kg

Fig.B.5 validation 2450 MHz 250mW

2600 MHz

Date: 3/19/2021

Electronics: DAE4 Sn536

Medium: Head 2600 MHz

Medium parameters used: $f = 2600$ MHz; $\sigma = 1.925$ mho/m; $\epsilon_r = 39.06$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C Liquid Temperature: 22.3°C

Communication System: CW Frequency: 2600 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7307 ConvF(7.61,7.61,7.61)

System Validation /Area Scan (81x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Reference Value = 119.83 V/m; Power Drift = 0.05

Fast SAR: SAR(1 g) = 14.39 W/kg; SAR(10 g) = 6.36 W/kg

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

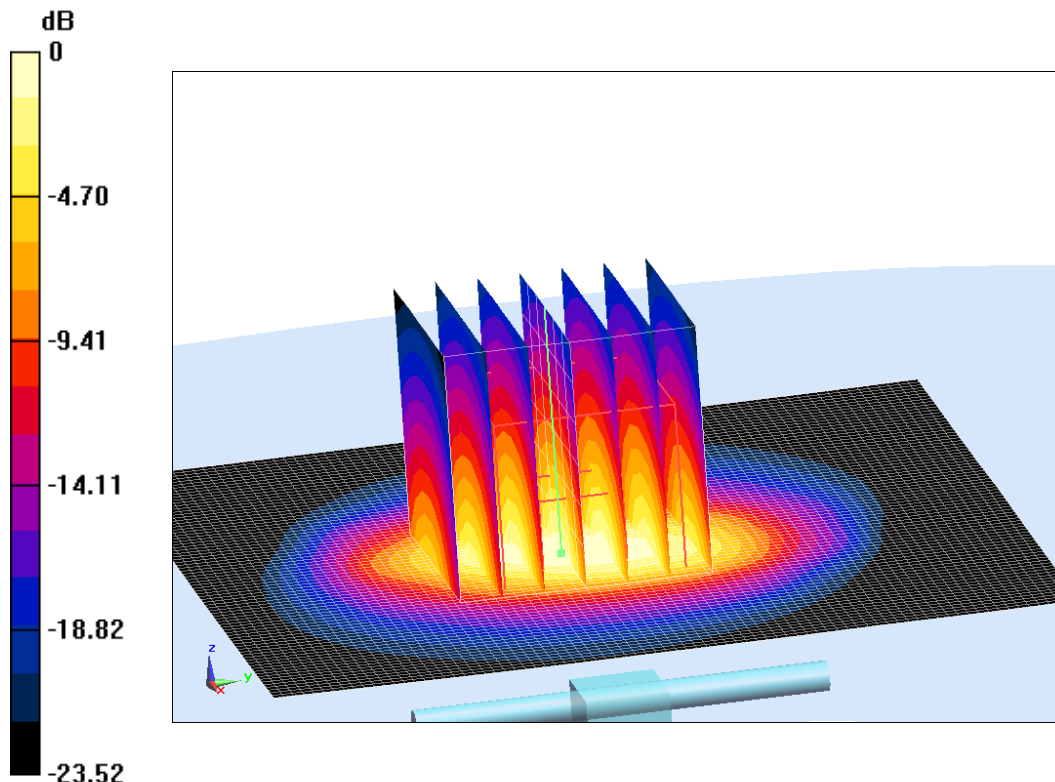
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 119.83 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 29.18 W/kg

SAR(1 g) = 13.97 W/kg; SAR(10 g) = 6.3 W/kg



Maximum value of SAR (measured) = 24.87 W/kg



0 dB = 24.87 W/kg = 13.96 dB W/kg

Fig.B.6 validation 2600 MHz 250mW

ANNEX J Accreditation Certificate

United States Department of Commerce National Institute of Standards and Technology	
	
<hr/> Certificate of Accreditation to ISO/IEC 17025:2017 <hr/>	
NVLAP LAB CODE: 600118-0	
Telecommunication Technology Labs, CAICT Beijing China	
<i>is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:</i>	
Electromagnetic Compatibility & Telecommunications	
<i>This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).</i>	
<hr/> 2020-09-29 through 2021-09-30 Effective Dates	 <hr/>  For the National Voluntary Laboratory Accreditation Program