

LTE700-FDD12_CH23095 Left Cheek

Date: 4/23/2018

Electronics: DAE4 Sn1525

Medium: head 750 MHz

Medium parameters used: $f = 707.5$ MHz; $\sigma = 0.858$ mho/m; $\epsilon_r = 41.75$; $\rho = 1000$ kg/m³

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

Communication System: LTE700-FDD12 707.5 MHz Duty Cycle: 1: 1

Probe: EX3DV4 – SN7464 ConvF(10.57,10.57,10.57)

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

Maximum value of SAR (interpolated) = 0.0567 W/kg

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

Reference Value = 3.014 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.066 W/kg

SAR(1 g) = 0.051 W/kg; SAR(10 g) = 0.039 W/kg

Maximum value of SAR (measured) = 0.0565 W/kg

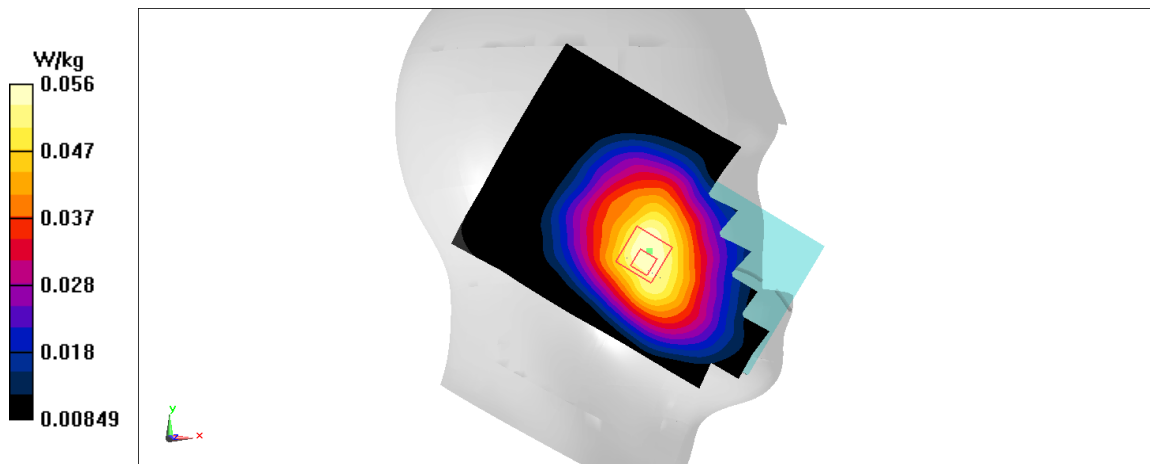


Fig A.11

LTE700-FDD12_CH23095 Front

Date: 4/23/2018

Electronics: DAE4 Sn1525

Medium: body 750 MHz

Medium parameters used: $f = 707.5$ MHz; $\sigma = 0.911$ mho/m; $\epsilon_r = 55.4$; $\rho = 1000$ kg/m³

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

Communication System: LTE700-FDD12 707.5 MHz Duty Cycle: 1: 1

Probe: EX3DV4 – SN7464 ConvF(10.63,10.63,10.63)

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

Maximum value of SAR (interpolated) = 0.0598 W/kg

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

Reference Value = 7.827 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.067 W/kg

SAR(1 g) = 0.055 W/kg; SAR(10 g) = 0.044 W/kg

Maximum value of SAR (measured) = 0.057 W/kg

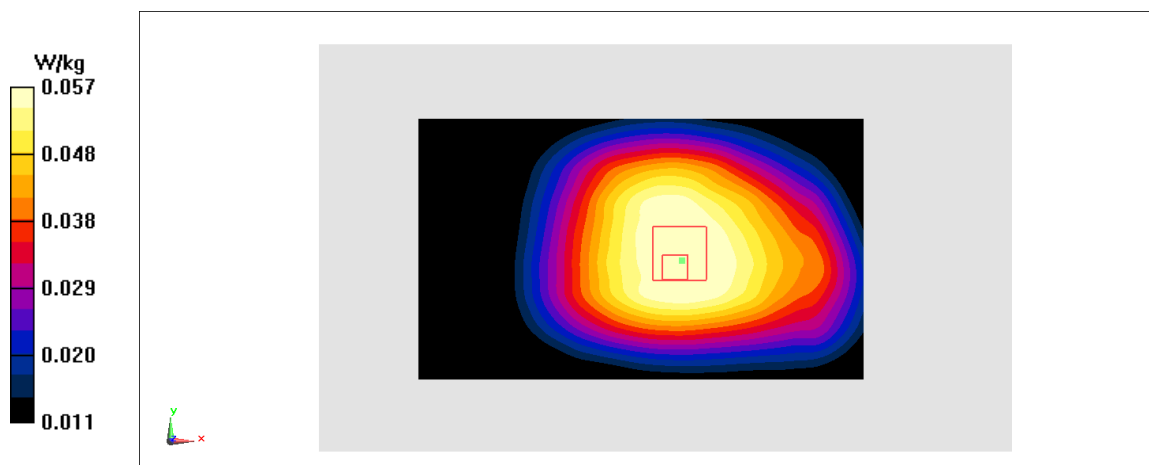


Fig A.12

LTE700-FDD14_CH23330 Left Cheek

Date: 4/23/2018

Electronics: DAE4 Sn1525

Medium: head 750 MHz

Medium parameters used: $f = 793$ MHz; $\sigma = 0.939$ mho/m; $\epsilon_r = 41.65$; $\rho = 1000$ kg/m³

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

Communication System: LTE700-FDD14 793 MHz Duty Cycle: 1: 1

Probe: EX3DV4 – SN7464 ConvF(10.57,10.57,10.57)

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

Maximum value of SAR (interpolated) = 0.126 W/kg

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

Reference Value = 3.926 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.151 W/kg

SAR(1 g) = 0.116 W/kg; SAR(10 g) = 0.088 W/kg

Maximum value of SAR (measured) = 0.122 W/kg

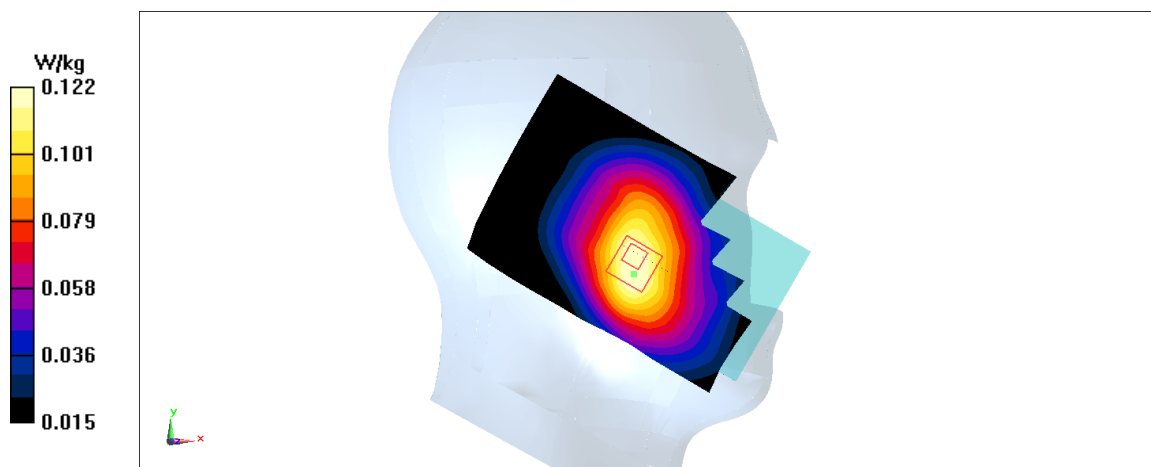


Fig A.13

LTE700-FDD14_CH23330 Rear

Date: 4/23/2018

Electronics: DAE4 Sn1525

Medium: body 750 MHz

Medium parameters used: $f = 793$ MHz; $\sigma = 0.992$ mho/m; $\epsilon_r = 55.3$; $\rho = 1000$ kg/m³

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

Communication System: LTE700-FDD14 793 MHz Duty Cycle: 1: 1

Probe: EX3DV4 – SN7464 ConvF(10.63,10.63,10.63)

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

Maximum value of SAR (interpolated) = 0.229 W/kg

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

Reference Value = 15.21 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.264 W/kg

SAR(1 g) = 0.209 W/kg; SAR(10 g) = 0.162 W/kg

Maximum value of SAR (measured) = 0.221 W/kg

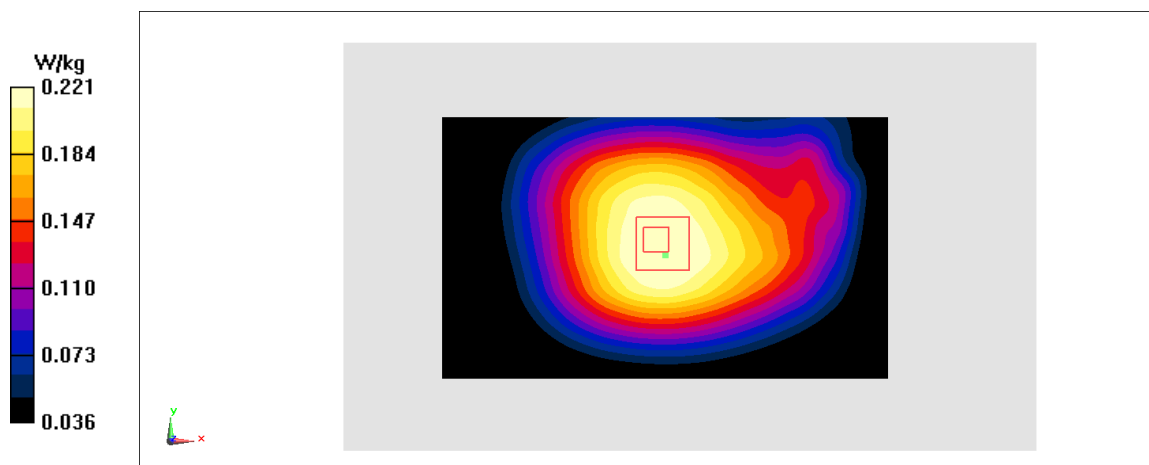


Fig A.14

LTE2300-FDD30_CH27710 Right Cheek

Date: 4/27/2018

Electronics: DAE4 Sn1525

Medium: head 2300 MHz

Medium parameters used: $f = 2310$ MHz; $\sigma = 1.664$ mho/m; $\epsilon_r = 39.34$; $\rho = 1000$ kg/m³

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

Communication System: LTE2300-FDD30 2310 MHz Duty Cycle: 1: 1

Probe: EX3DV4 – SN7464 ConvF(8.40,8.40,8.40)

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

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

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

Reference Value = 2.138 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.237 W/kg

SAR(1 g) = 0.14 W/kg; SAR(10 g) = 0.076 W/kg

Maximum value of SAR (measured) = 0.158 W/kg

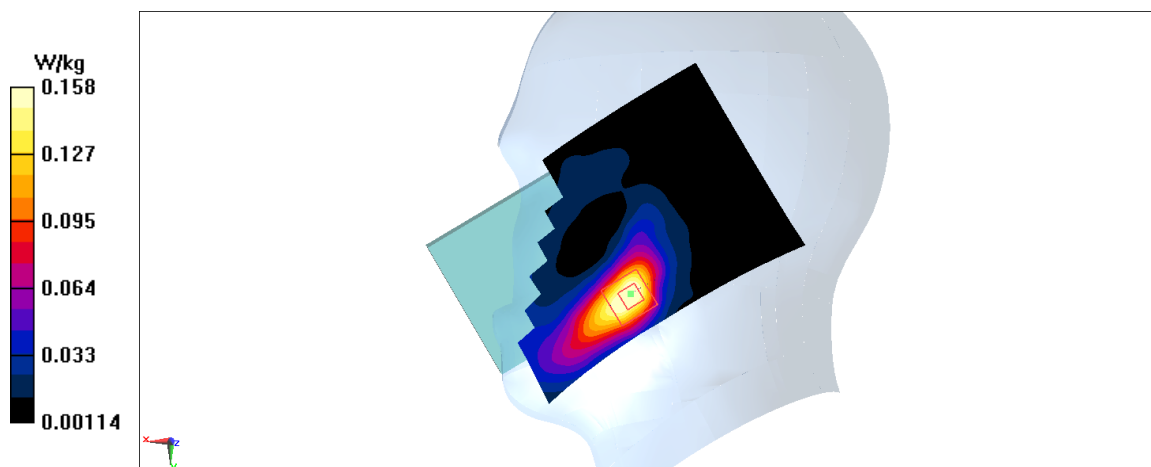


Fig A.15

LTE2300-FDD30_CH27710 Bottom edge

Date: 4/27/2018

Electronics: DAE4 Sn1525

Medium: body 2300 MHz

Medium parameters used: $f = 2310$ MHz; $\sigma = 1.834$ mho/m; $\epsilon_r = 53.55$; $\rho = 1000$ kg/m³

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

Communication System: LTE2300-FDD30 2310 MHz Duty Cycle: 1: 1

Probe: EX3DV4 – SN7464 ConvF(8.30,8.30,8.30)

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

Maximum value of SAR (interpolated) = 0.862 W/kg

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

Reference Value = 4.127 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.39 W/kg

SAR(1 g) = 0.722 W/kg; SAR(10 g) = 0.339 W/kg

Maximum value of SAR (measured) = 0.804 W/kg

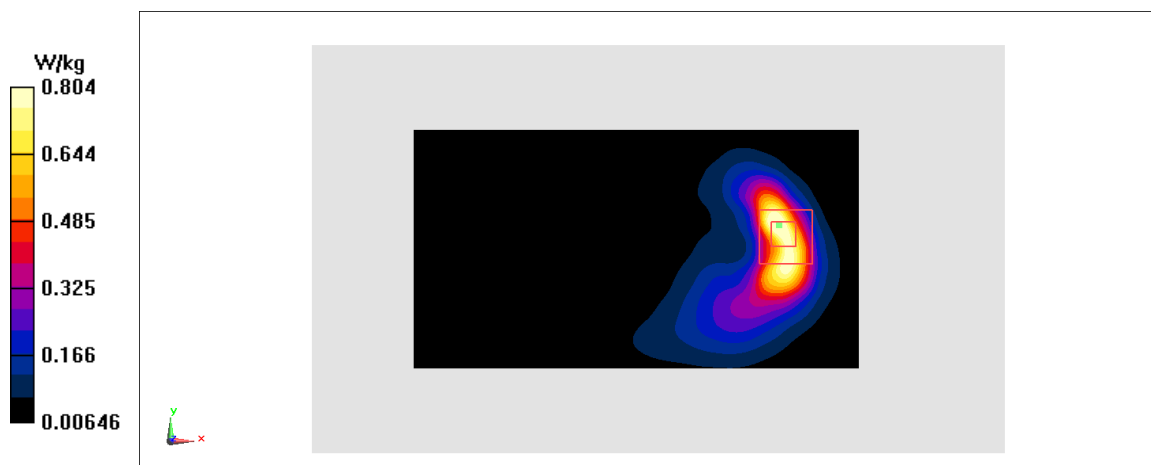


Fig A.16

LTE1700-FDD66_CH132322 Right Cheek

Date: 4/25/2018

Electronics: DAE4 Sn1525

Medium: head 1750 MHz

Medium parameters used: $f = 1745$ MHz; $\sigma = 1.371$ mho/m; $\epsilon_r = 40.72$; $\rho = 1000$ kg/m³

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

Communication System: LTE1700-FDD66 1745 MHz Duty Cycle: 1: 1

Probe: EX3DV4 – SN7464 ConvF(8.70,8.70,8.70)

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

Maximum value of SAR (interpolated) = 0.202 W/kg

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

Reference Value = 6.942 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.251 W/kg

SAR(1 g) = 0.17 W/kg; SAR(10 g) = 0.107 W/kg

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

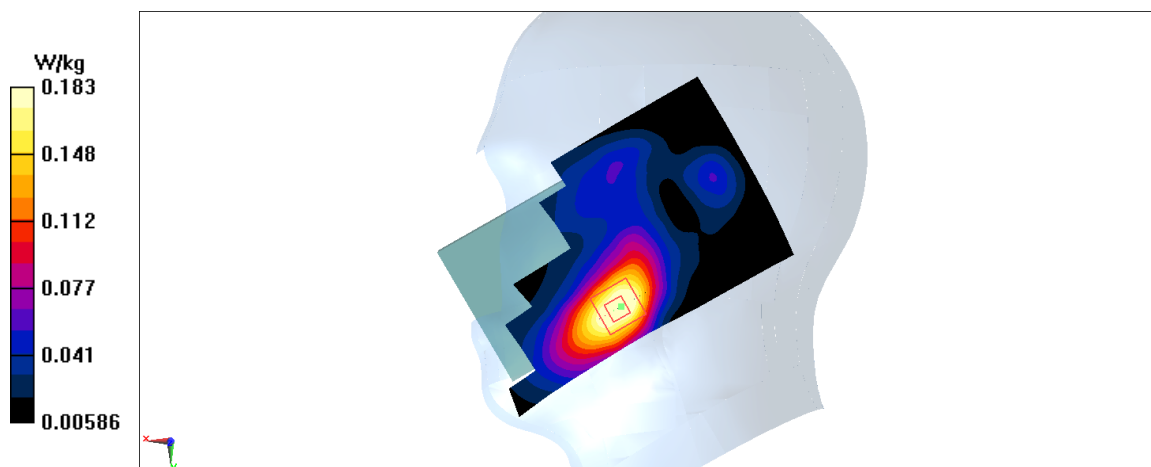


Fig A.17

LTE1700-FDD66_CH132322 Rear

Date: 4/25/2018

Electronics: DAE4 Sn1525

Medium: body 1750 MHz

Medium parameters used: $f = 1745$ MHz; $\sigma = 1.501$ mho/m; $\epsilon_r = 53.34$; $\rho = 1000$ kg/m³

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

Communication System: LTE1700-FDD66 1745 MHz Duty Cycle: 1: 1

Probe: EX3DV4 – SN7464 ConvF(8.60,8.60,8.60)

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

Maximum value of SAR (interpolated) = 0.835 W/kg

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

Reference Value = 9.523 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.12 W/kg

SAR(1 g) = 0.608 W/kg; SAR(10 g) = 0.314 W/kg

Maximum value of SAR (measured) = 0.678 W/kg

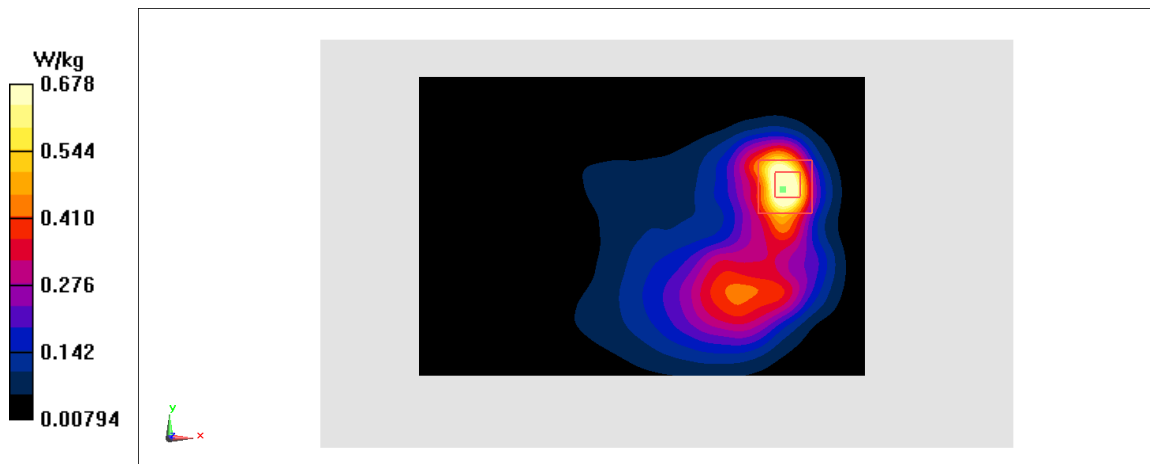


Fig A.18

WLAN2450_CH6 Left Cheek

Date: 4/28/2018

Electronics: DAE4 Sn1525

Medium: head 2450 MHz

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.793$ mho/m; $\epsilon_r = 39.78$; $\rho = 1000$ kg/m³

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

Communication System: WLAN2450 2437 Duty Cycle: 1: 1

Probe: EX3DV4 – SN7464 ConvF(7.89,7.89,7.89)

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

Maximum value of SAR (interpolated) = 0.73 W/kg

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

Reference Value = 11.99 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.17 W/kg

SAR(1 g) = 0.496 W/kg; SAR(10 g) = 0.24 W/kg

Maximum value of SAR (measured) = 0.666 W/kg

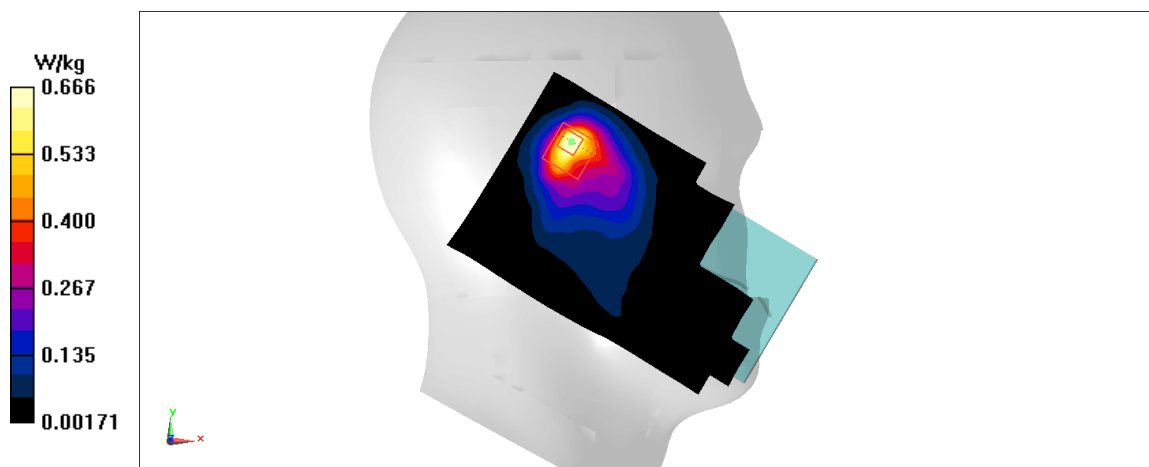


Fig A.19

WLAN2450_CH6 Rear

Date: 4/28/2018

Electronics: DAE4 Sn1525

Medium: body 2450 MHz

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.918$ mho/m; $\epsilon_r = 51.82$; $\rho = 1000$ kg/m³

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

Communication System: WLAN2450 2437 Duty Cycle: 1: 1

Probe: EX3DV4 – SN7464 ConvF(8.09,8.09,8.09)

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

Maximum value of SAR (interpolated) = 0.273 W/kg

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

Reference Value = 3.653 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.429 W/kg

SAR(1 g) = 0.211 W/kg; SAR(10 g) = 0.106 W/kg

Maximum value of SAR (measured) = 0.272 W/kg

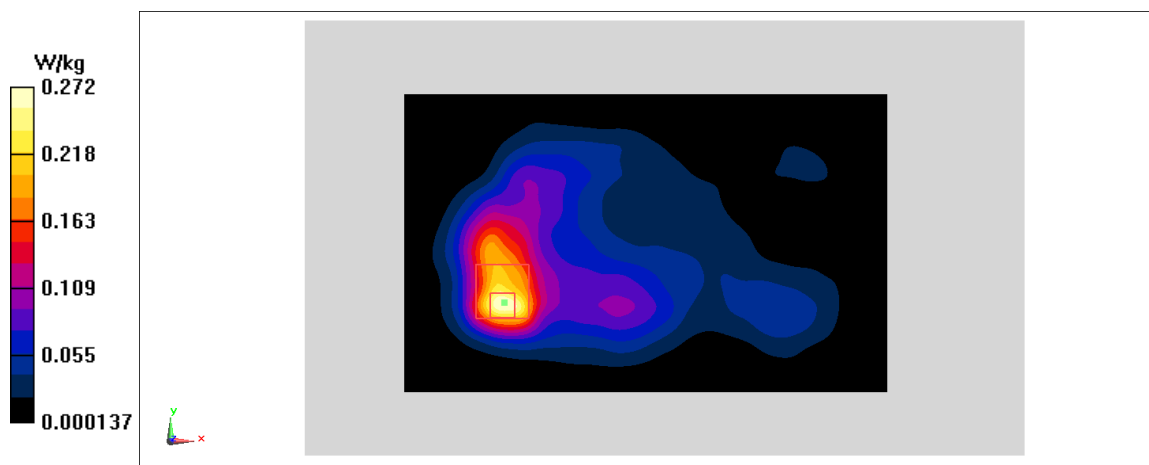


Fig A.20

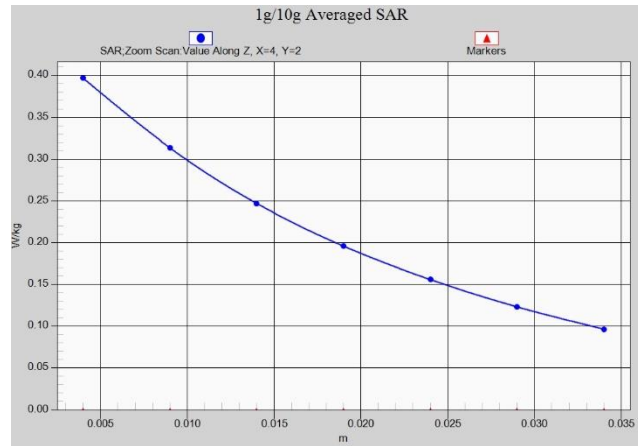


Fig.A.1- 1 Z-Scan at power reference point (W850)

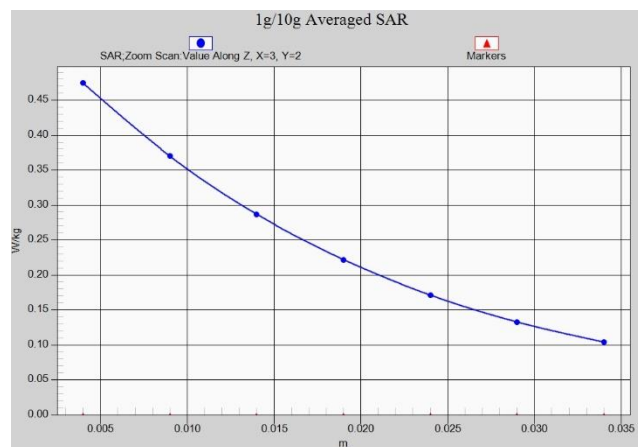


Fig.A.1- 2 Z-Scan at power reference point (W850)

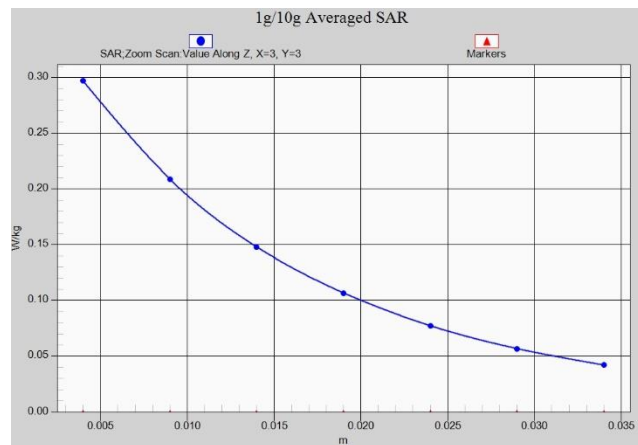


Fig.A.1- 3 Z-Scan at power reference point (W1700)

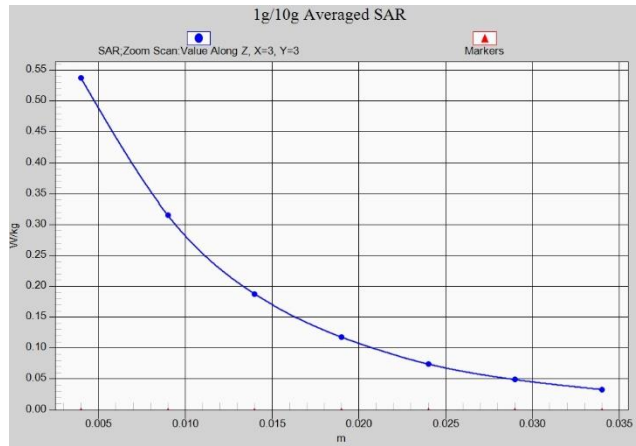


Fig.A.1- 4 Z-Scan at power reference point (W1700)

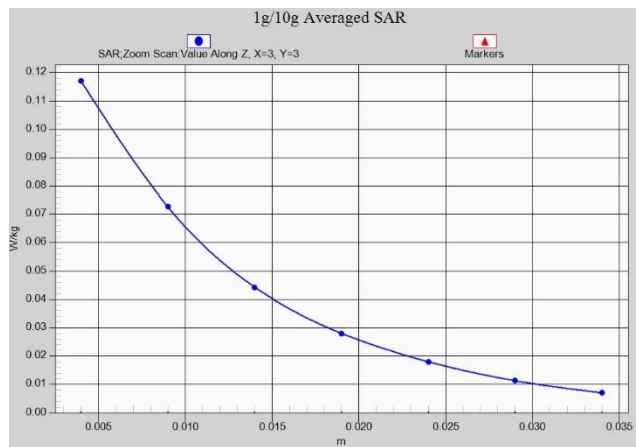


Fig.A.1- 5 Z-Scan at power reference point (W1900)

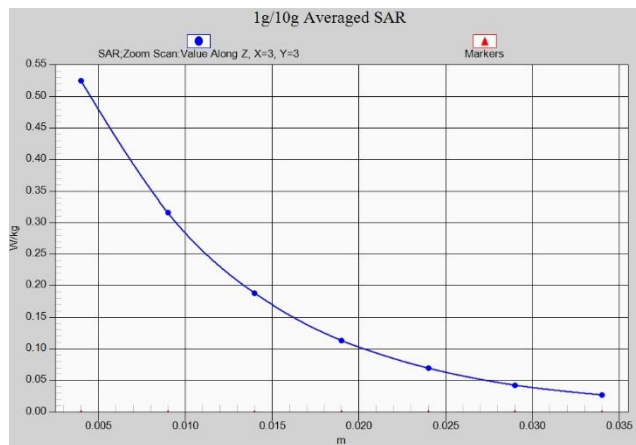


Fig.A.1- 6 Z-Scan at power reference point (W1900)

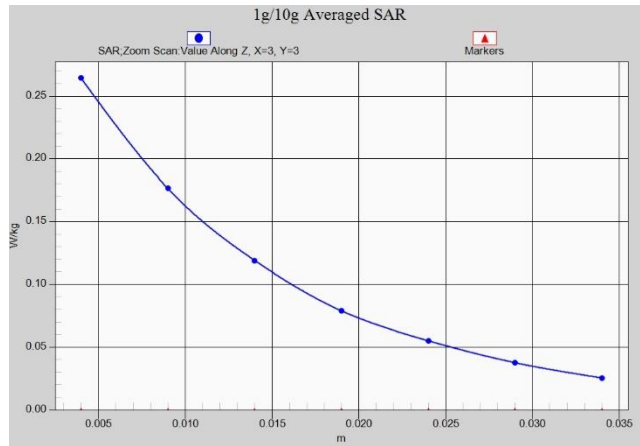


Fig.A.1- 7 Z-Scan at power reference point (LTE Band2)

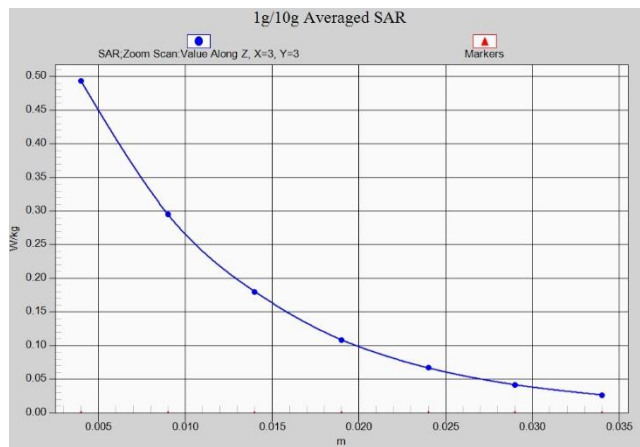


Fig.A.1- 8 Z-Scan at power reference point (LTE Band2)

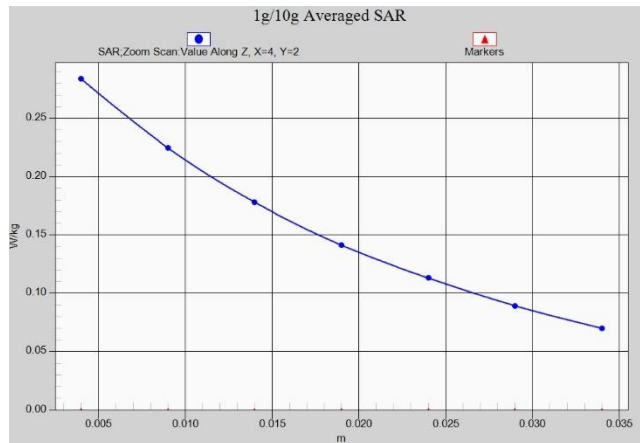


Fig.A.1- 9 Z-Scan at power reference point (LTE Band5)

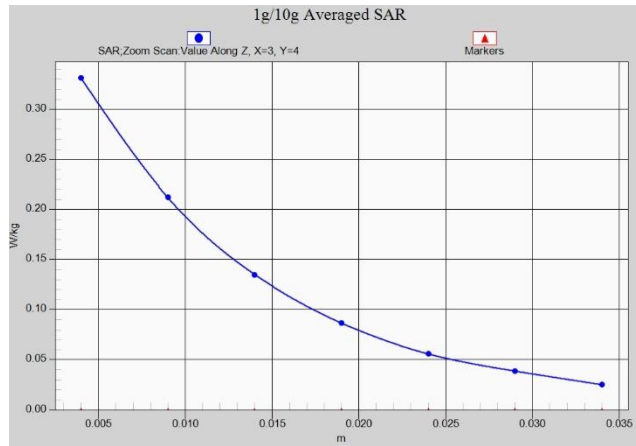


Fig.A.1- 10 Z-Scan at power reference point (LTE Band5)



Fig.A.1- 11 Z-Scan at power reference point (LTE Band12)

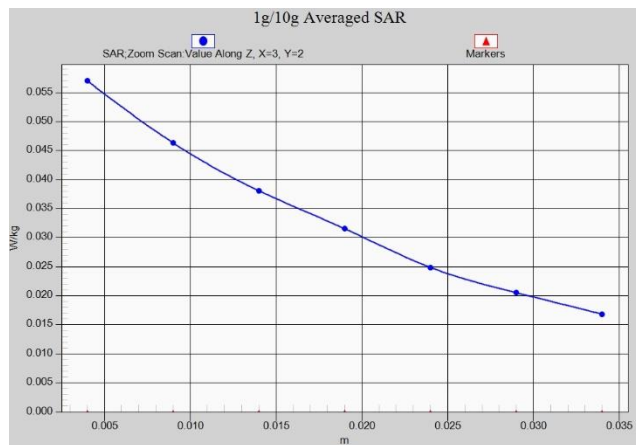


Fig.A.1- 12 Z-Scan at power reference point (LTE Band12)

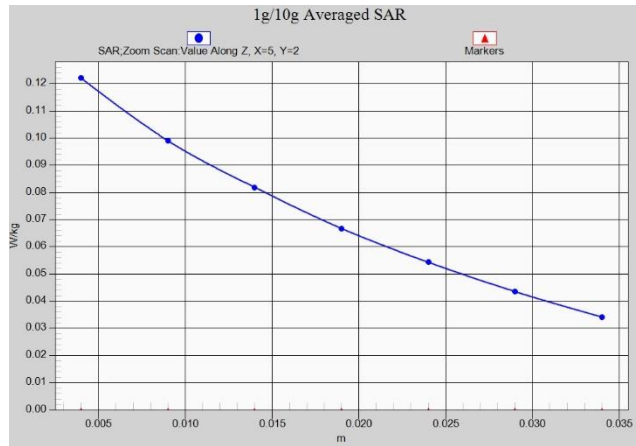


Fig.A.1- 13 Z-Scan at power reference point (LTE Band14)

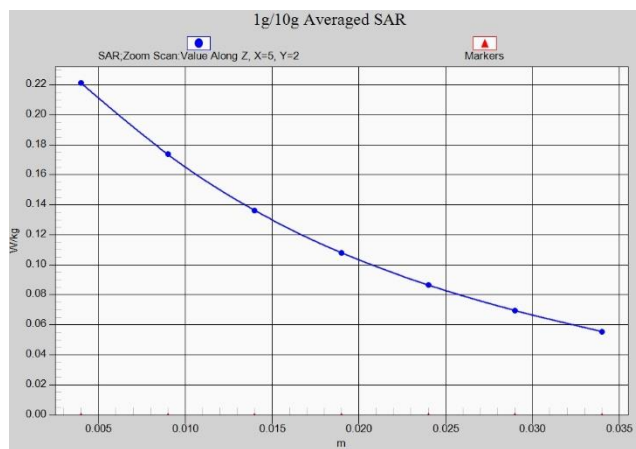


Fig.A.1- 14 Z-Scan at power reference point (LTE Band14)

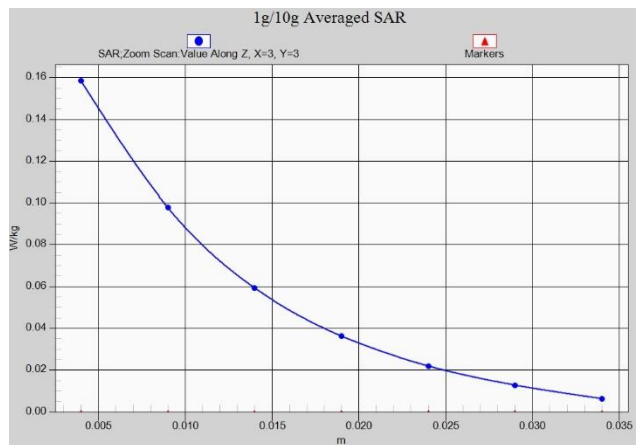


Fig.A.1- 15 Z-Scan at power reference point (LTE Band30)

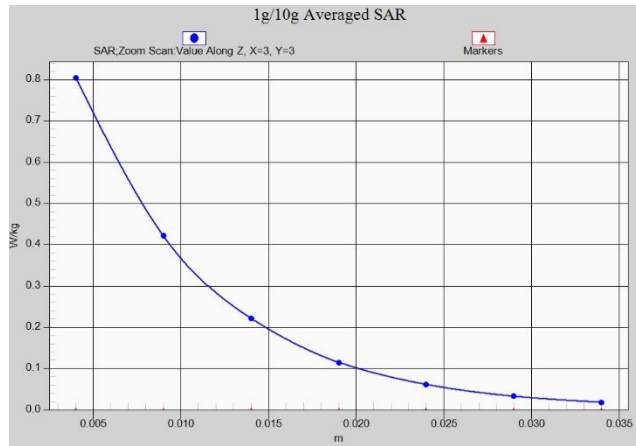


Fig.A.1- 16 Z-Scan at power reference point (LTE Band30)

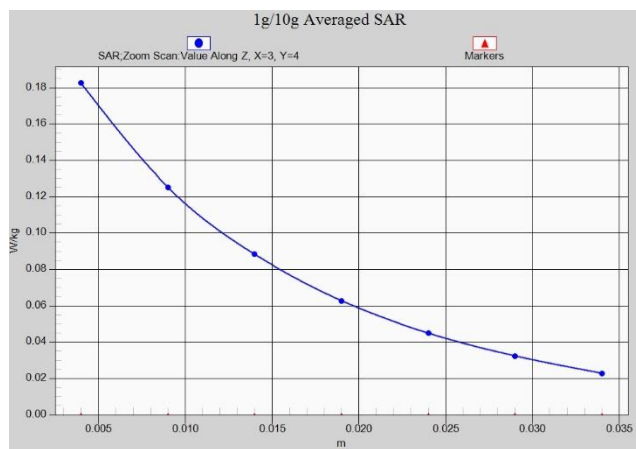


Fig.A.1- 17 Z-Scan at power reference point (LTE Band66)

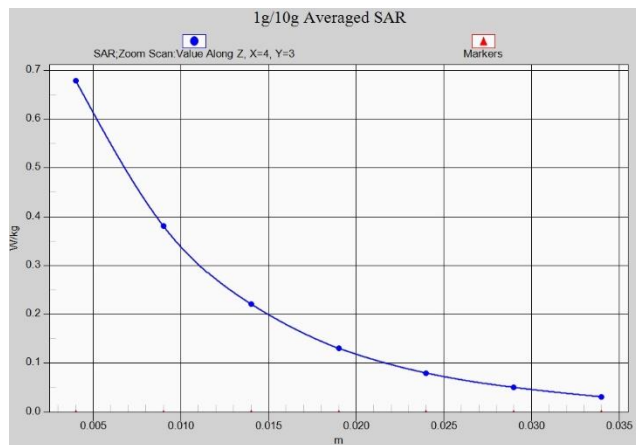


Fig.A.1- 18 Z-Scan at power reference point (LTE Band66)

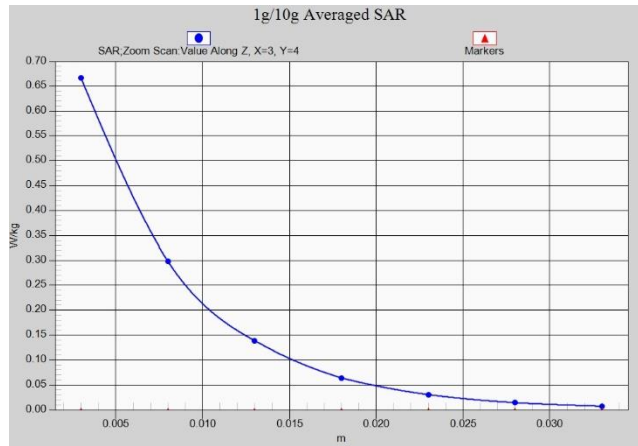


Fig.A.1- 19 Z-Scan at power reference point (WLAN)

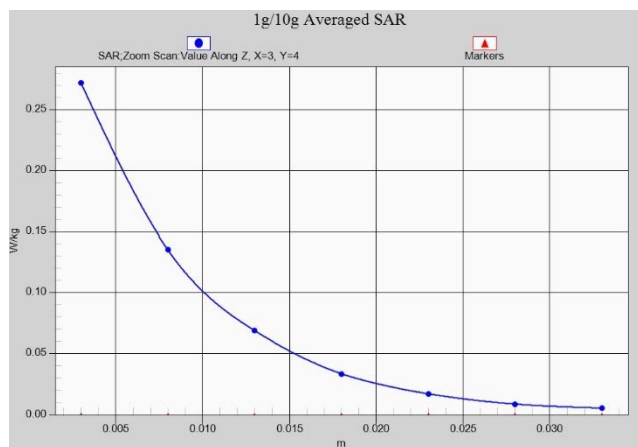


Fig.A.1- 20 Z-Scan at power reference point (WLAN)

ANNEX B System Verification Results

750 MHz

Date: 4/23/2018

Electronics: DAE4 Sn1525

Medium: Head 750 MHz

Medium parameters used: $f = 750$ MHz; $\sigma = 0.898$ mho/m; $\epsilon_r = 41.7$; $\rho = 1000$ kg/m³

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

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

Probe: EX3DV4 – SN7464 ConvF(10.57,10.57,10.57)

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

Reference Value = 59.9 V/m; Power Drift = 0.03

Fast SAR: SAR(1 g) = 2.04 W/kg; SAR(10 g) = 1.38 W/kg

Maximum value of SAR (interpolated) = 2.75 W/kg

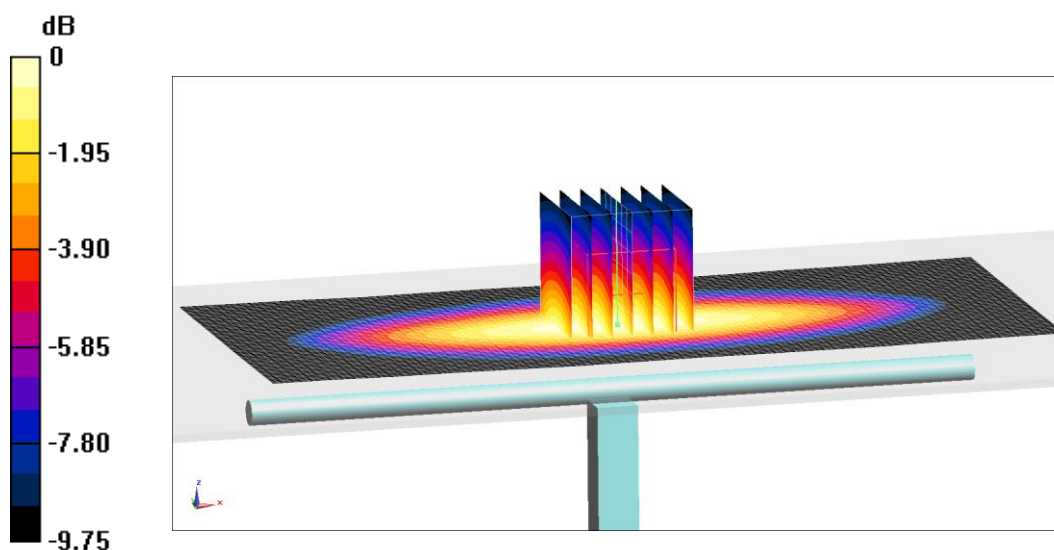
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 59.9 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 3.17 W/kg

SAR(1 g) = 2.08 W/kg; SAR(10 g) = 1.34 W/kg

Maximum value of SAR (measured) = 2.82 W/kg



0 dB = 2.82 W/kg = 4.5 dB W/kg

Fig.B.1 validation 750 MHz 250mW

750 MHz

Date: 4/23/2018

Electronics: DAE4 Sn1525

Medium: Body 750 MHz

Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.951 \text{ mho/m}$; $\epsilon_r = 55.35$; $\rho = 1000 \text{ kg/m}^3$

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

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

Probe: EX3DV4 – SN7464 ConvF(10.63,10.63,10.63)

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

Reference Value = 56.8 V/m ; Power Drift = -0.03

Fast SAR: SAR(1 g) = 2.16 W/kg ; SAR(10 g) = 1.42 W/kg

Maximum value of SAR (interpolated) = 3.23 W/kg

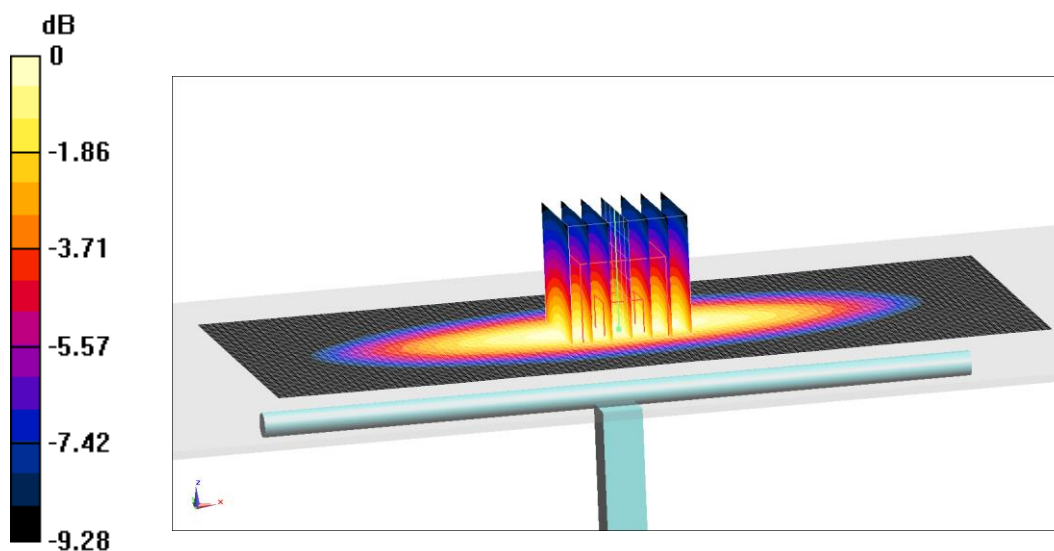
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 56.8 V/m ; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 3.3 W/kg

SAR(1 g) = 2.21 W/kg ; SAR(10 g) = 1.41 W/kg

Maximum value of SAR (measured) = 2.9 W/kg



0 dB = 2.9 W/kg = 4.62 dB W/kg

Fig.B.2 validation 750 MHz 250mW

835 MHz

Date: 4/24/2018

Electronics: DAE4 Sn1525

Medium: Head 835 MHz

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.901 \text{ mho/m}$; $\epsilon_r = 41.6$; $\rho = 1000 \text{ kg/m}^3$

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

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

Probe: EX3DV4 – SN7464 ConvF(10.28,10.28,10.28)

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

Reference Value = 64.81 V/m ; Power Drift = 0.04

Fast SAR: SAR(1 g) = 2.34 W/kg; SAR(10 g) = 1.5 W/kg

Maximum value of SAR (interpolated) = 3.8 W/kg

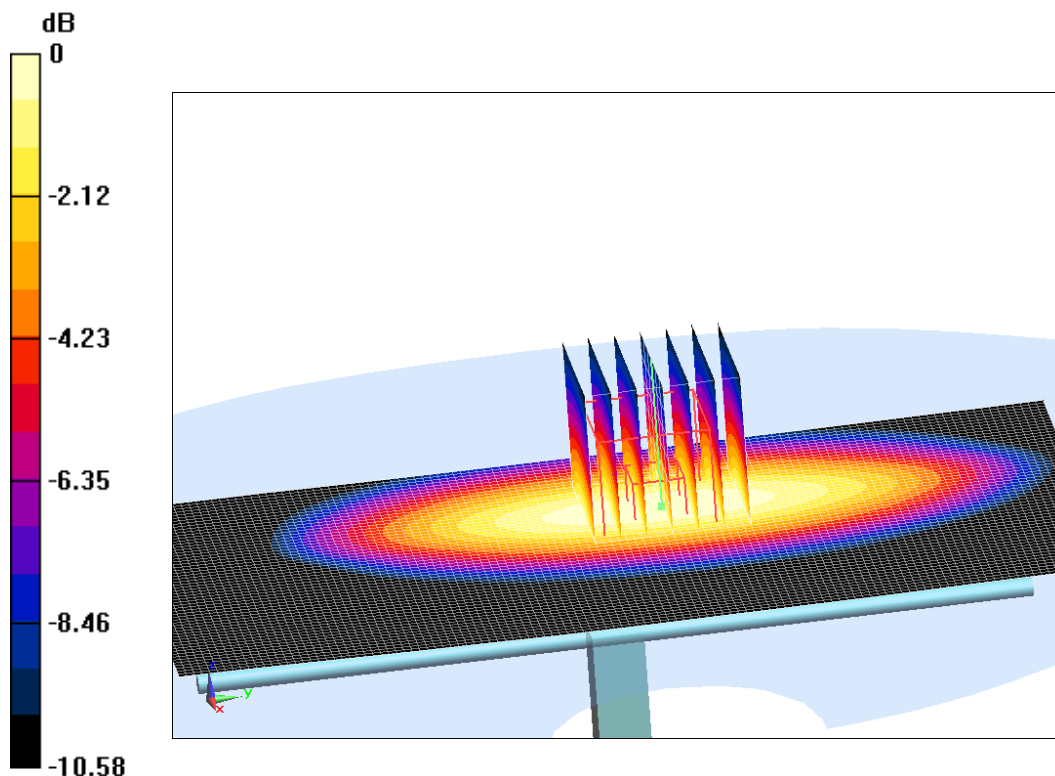
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 64.81 V/m ; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 4.12 W/kg

SAR(1 g) = 2.37 W/kg; SAR(10 g) = 1.52 W/kg

Maximum value of SAR (measured) = 3.63 W/kg



0 dB = $3.63 \text{ W/kg} = 5.6 \text{ dB W/kg}$

Fig.B.3 validation 835 MHz 250mW

835 MHz

Date: 4/24/2018

Electronics: DAE4 Sn1525

Medium: Body 835 MHz

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.988 \text{ mho/m}$; $\epsilon_r = 56.1$; $\rho = 1000 \text{ kg/m}^3$

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

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

Probe: EX3DV4 – SN7464 ConvF(10.21,10.21,10.21)

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

Reference Value = 59.21 V/m ; Power Drift = -0.09

Fast SAR: SAR(1 g) = 2.32 W/kg ; SAR(10 g) = 1.52 W/kg

Maximum value of SAR (interpolated) = 3.58 W/kg

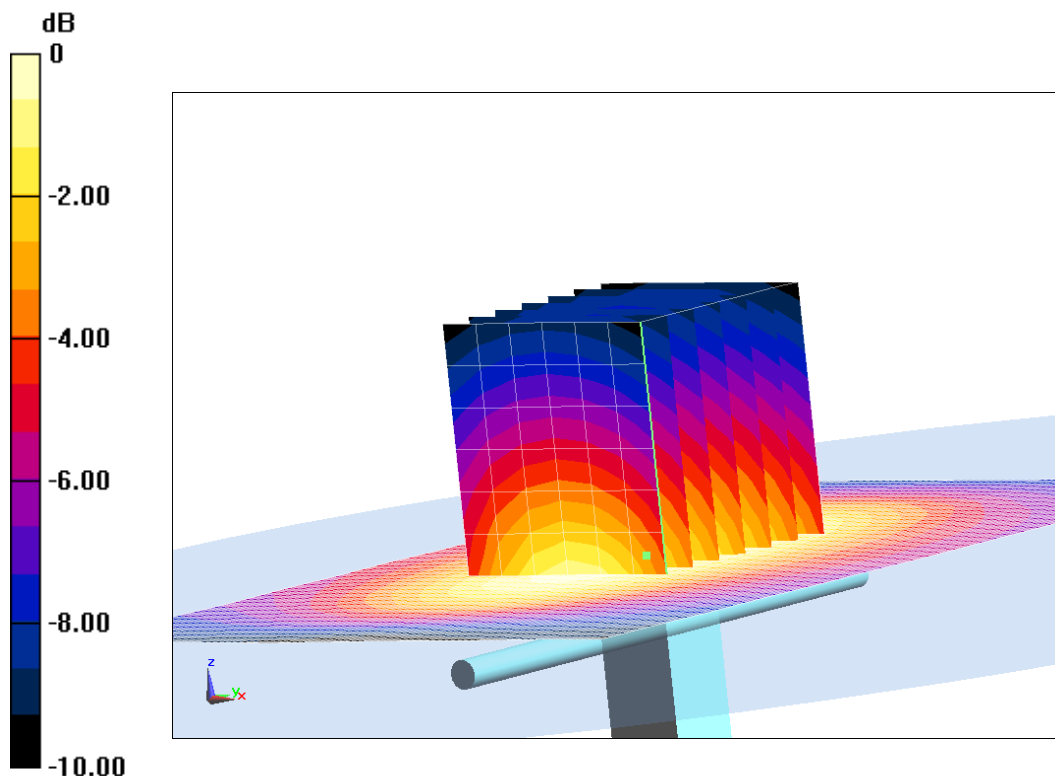
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 59.21 V/m ; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 3.7 W/kg

SAR(1 g) = 2.31 W/kg ; SAR(10 g) = 1.55 W/kg

Maximum value of SAR (measured) = 3.2 W/kg



0 dB = $3.2 \text{ W/kg} = 5.05 \text{ dB W/kg}$

Fig.B.4 validation 835 MHz 250mW

1750 MHz

Date: 4/25/2018

Electronics: DAE4 Sn1525

Medium: Head 1750 MHz

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 40.68$; $\rho = 1000$ kg/m³

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

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

Probe: EX3DV4 – SN7464 ConvF(8.70,8.70,8.70)

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

Reference Value = 104.5 V/m; Power Drift = 0.06

Fast SAR: SAR(1 g) = 9.05 W/kg; SAR(10 g) = 4.85 W/kg

Maximum value of SAR (interpolated) = 14.9 W/kg

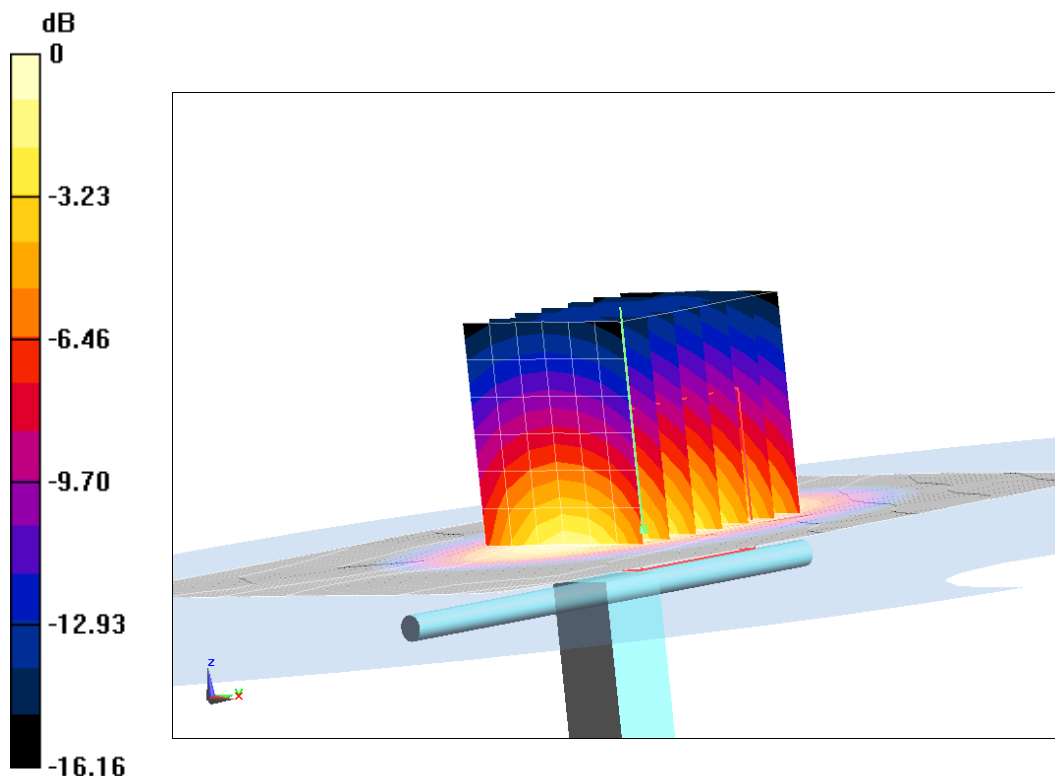
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 104.5 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 17.93 W/kg

SAR(1 g) = 9.03 W/kg; SAR(10 g) = 4.88 W/kg

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



0 dB = 14.5 W/kg = 11.61 dB W/kg

Fig.B.5 validation 1750 MHz 250mW

1750 MHz

Date: 4/25/2018

Electronics: DAE4 Sn1525

Medium: Body 1750 MHz

Medium parameters used: $f = 1750 \text{ MHz}$; $\sigma = 1.514 \text{ mho/m}$; $\epsilon_r = 53.22$; $\rho = 1000 \text{ kg/m}^3$

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

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

Probe: EX3DV4 – SN7464 ConvF(8.60,8.60,8.60)

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

Reference Value = 101.14 V/m ; Power Drift = 0.04

Fast SAR: SAR(1 g) = 9.15 W/kg ; SAR(10 g) = 4.93 W/kg

Maximum value of SAR (interpolated) = 16.23 W/kg

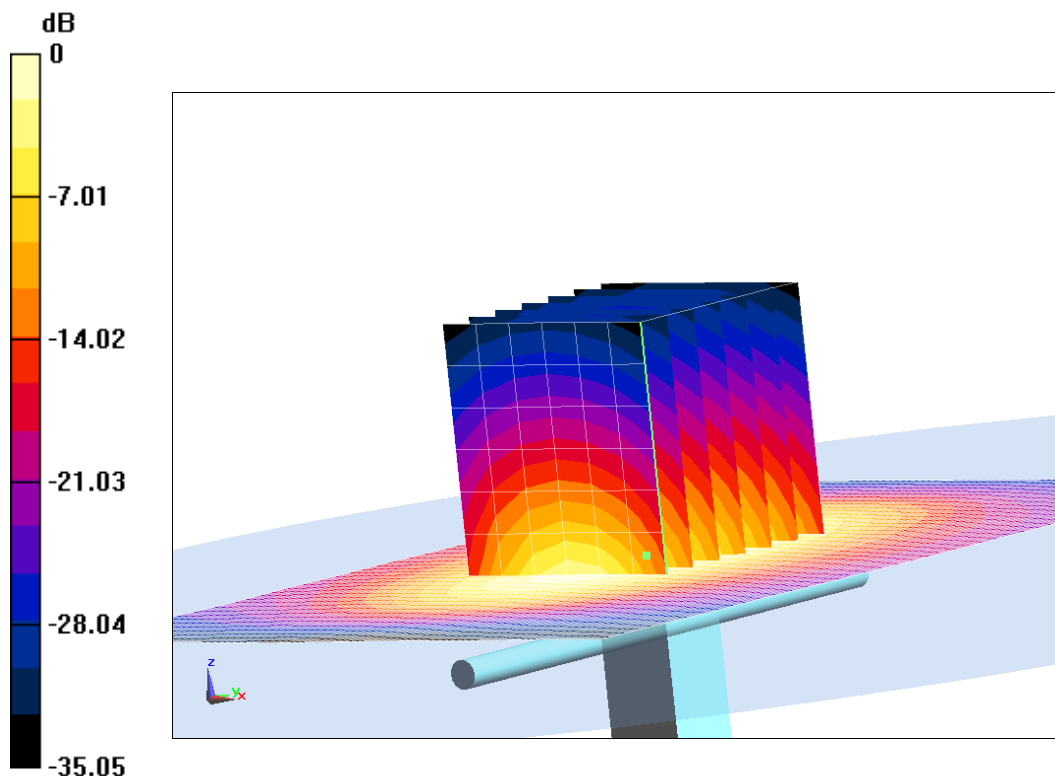
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 101.14 V/m ; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 16.08 W/kg

SAR(1 g) = 9.19 W/kg ; SAR(10 g) = 5.02 W/kg

Maximum value of SAR (measured) = 13.23 W/kg



0 dB = 13.23 W/kg = 11.22 dB W/kg

Fig.B.6 validation 1750 MHz 250mW

1900 MHz

Date: 4/26/2018

Electronics: DAE4 Sn1525

Medium: Head 1900 MHz

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 39.55$; $\rho = 1000$ kg/m³

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

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

Probe: EX3DV4 – SN7464 ConvF(8.39,8.39,8.39)

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

Reference Value = 105.18 V/m; Power Drift = 0.02

Fast SAR: SAR(1 g) = 10.03 W/kg; SAR(10 g) = 5.25 W/kg

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

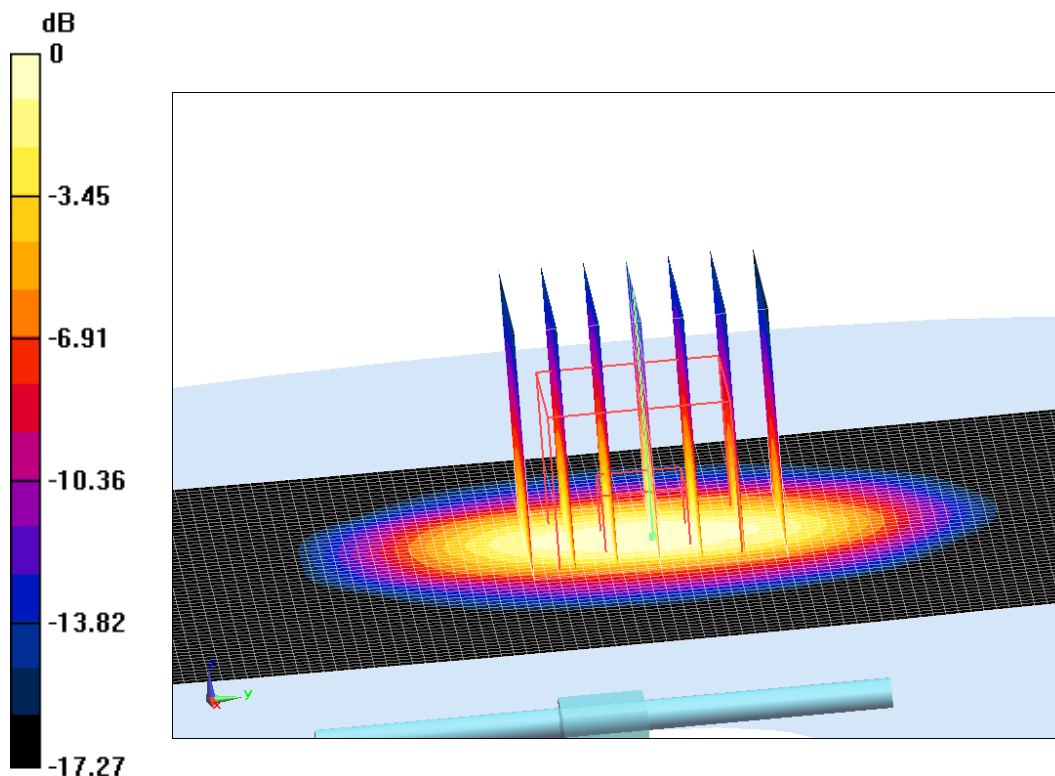
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 105.18 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 18.32 W/kg

SAR(1 g) = 10.15 W/kg; SAR(10 g) = 5.2 W/kg

Maximum value of SAR (measured) = 14.81 W/kg



0 dB = 14.81 W/kg = 11.71 dB W/kg

Fig.B.7 validation 1900 MHz 250mW

1900 MHz

Date: 4/26/2018

Electronics: DAE4 Sn1525

Medium: Body 1900 MHz

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.536$ mho/m; $\epsilon_r = 53.19$; $\rho = 1000$ kg/m³

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

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

Probe: EX3DV4 – SN7464 ConvF(8.32,8.32,8.32)

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

Reference Value = 103.34 V/m; Power Drift = -0.03

Fast SAR: SAR(1 g) = 10.3 W/kg; SAR(10 g) = 5.34 W/kg

Maximum value of SAR (interpolated) = 17.78 W/kg

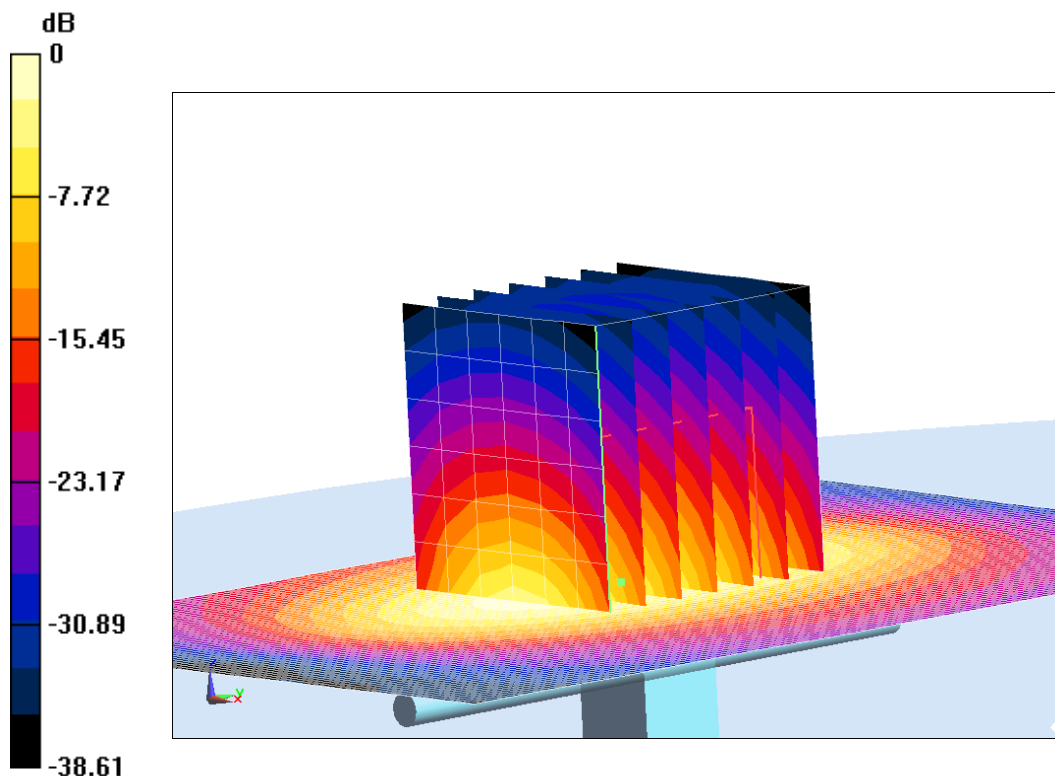
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 103.34 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 17.85 W/kg

SAR(1 g) = 10.03 W/kg; SAR(10 g) = 5.31 W/kg

Maximum value of SAR (measured) = 14.11 W/kg



0 dB = 14.11 W/kg = 11.5 dB W/kg

Fig.B.8 validation 1900 MHz 250mW

2300 MHz

Date: 4/27/2018

Electronics: DAE4 Sn1525

Medium: Head 2300 MHz

Medium parameters used: $f = 2300$ MHz; $\sigma = 1.655$ mho/m; $\epsilon_r = 39.35$; $\rho = 1000$ kg/m³

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

Communication System: CW Frequency: 2300 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7464 ConvF(8.40,8.40,8.40)

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

Reference Value = 111.37 V/m; Power Drift = -0.08

Fast SAR: SAR(1 g) = 11.98 W/kg; SAR(10 g) = 5.74 W/kg

Maximum value of SAR (interpolated) = 19.15 W/kg

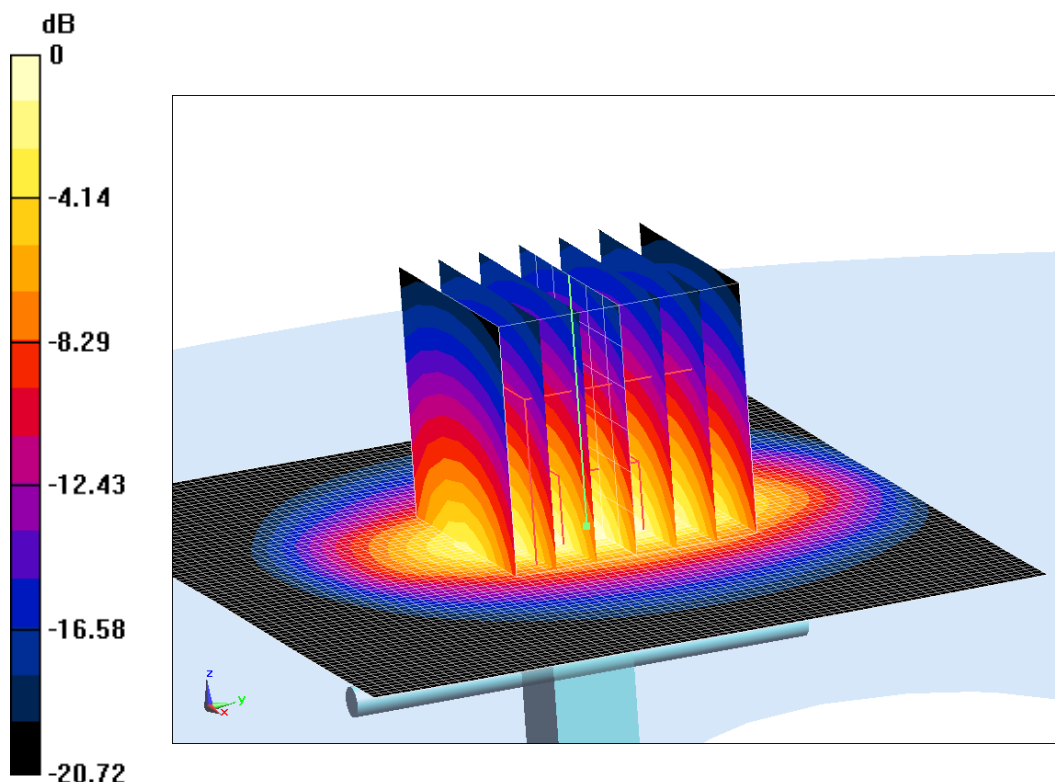
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 111.37 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 23.75 W/kg

SAR(1 g) = 12.3 W/kg; SAR(10 g) = 5.93 W/kg

Maximum value of SAR (measured) = 19.47 W/kg



0 dB = 19.47 W/kg = 12.89 dB W/kg

Fig.B.9 validation 2300 MHz 250mW