

WLAN_CH1 Right Cheek

Date: 3/9/2021

Electronics: DAE4 Sn536

Medium: head 2450 MHz

Medium parameters used: $f = 2412\text{MHz}$; $\sigma = 1.761\text{ mho/m}$; $\epsilon_r = 38.91$; $\rho = 1000\text{ kg/m}^3$

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

Communication System: WLAN2450 2412 Duty Cycle: 1: 1

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

Area Scan (71x121x1): Interpolated grid: $dx=1.000\text{ mm}$, $dy=1.000\text{ mm}$

Maximum value of SAR (interpolated) = 0.472 W/kg

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

Reference Value = 7.013 V/m ; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.582 W/kg

SAR(1 g) = 0.3 W/kg ; SAR(10 g) = 0.151 W/kg

Maximum value of SAR (measured) = 0.457 W/kg

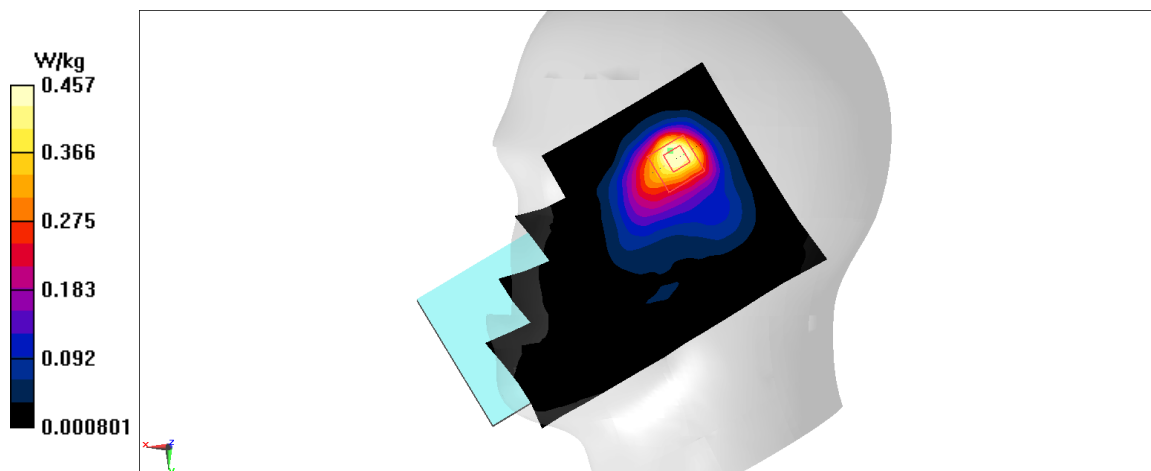


Fig A.30

WLAN2450_CH1 Rear 10mm

Date: 3/9/2021

Electronics: DAE4 Sn536

Medium: body 2450 MHz

Medium parameters used: $f = 2412\text{MHz}$; $\sigma = 1.761\text{ mho/m}$; $\epsilon_r = 38.91$; $\rho = 1000\text{ kg/m}^3$

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

Communication System: WLAN2450 2412 Duty Cycle: 1: 1

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

Area Scan (71x121x1): Interpolated grid: $dx=1.000\text{ mm}$, $dy=1.000\text{ mm}$

Maximum value of SAR (interpolated) = 0.528 W/kg

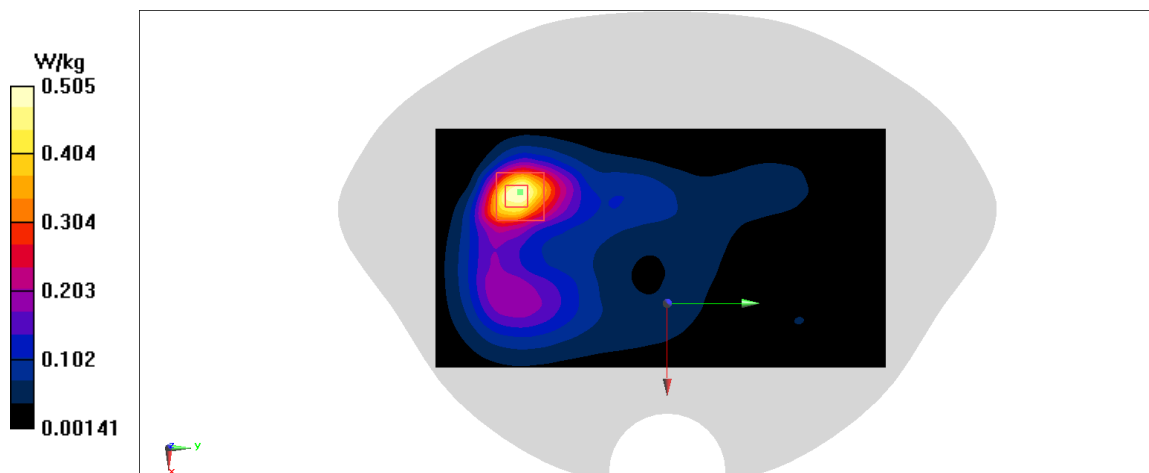
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 4.39 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.668 W/kg

SAR(1 g) = 0.309 W/kg; SAR(10 g) = 0.147 W/kg

Maximum value of SAR (measured) = 0.505 W/kg

**Fig A.31**

WLAN_CH52 Right Cheek 11a-6M

Date: 3/9/2021

Electronics: DAE4 Sn536

Medium: head 5GHz

Medium parameters used: $f = 5260\text{MHz}$; $\sigma = 4.739 \text{ mho/m}$; $\epsilon_r = 36.06$; $\rho = 1000 \text{ kg/m}^3$

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

Communication System: WLAN 5260 Duty Cycle: 1: 1

Probe: EX3DV4 – SN7307 ConvF(5.61,5.61,5.61)

Area Scan (71x121x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 2.06 W/kg

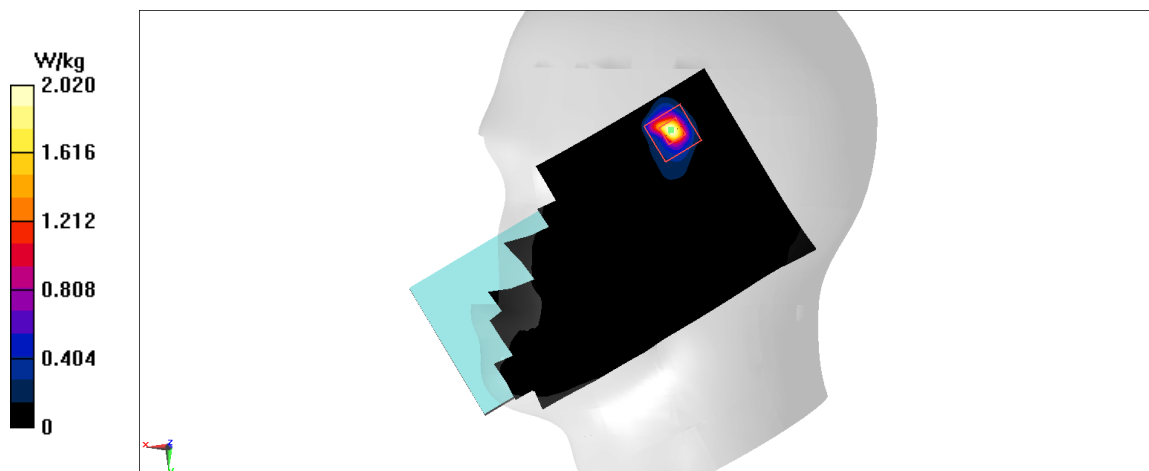
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 1.223 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 3.72 W/kg

SAR(1 g) = 0.654 W/kg; SAR(10 g) = 0.159 W/kg

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

**Fig A.32**

WLAN_CH157 Right Cheek11a-6M

Date: 3/9/2021

Electronics: DAE4 Sn536

Medium: head 5GHz

Medium parameters used: $f = 5785\text{MHz}$; $\sigma = 5.236 \text{ mho/m}$; $\epsilon_r = 35.70$; $\rho = 1000 \text{ kg/m}^3$

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

Communication System: WLAN 5785 Duty Cycle: 1: 1

Probe: EX3DV4 – SN7307 ConvF(5.05,5.05,5.05)

Area Scan (71x121x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 1.78 W/kg

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

Reference Value = 1.012 V/m ; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 2 W/kg

SAR(1 g) = 0.372 W/kg ; SAR(10 g) = 0.08 W/kg

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

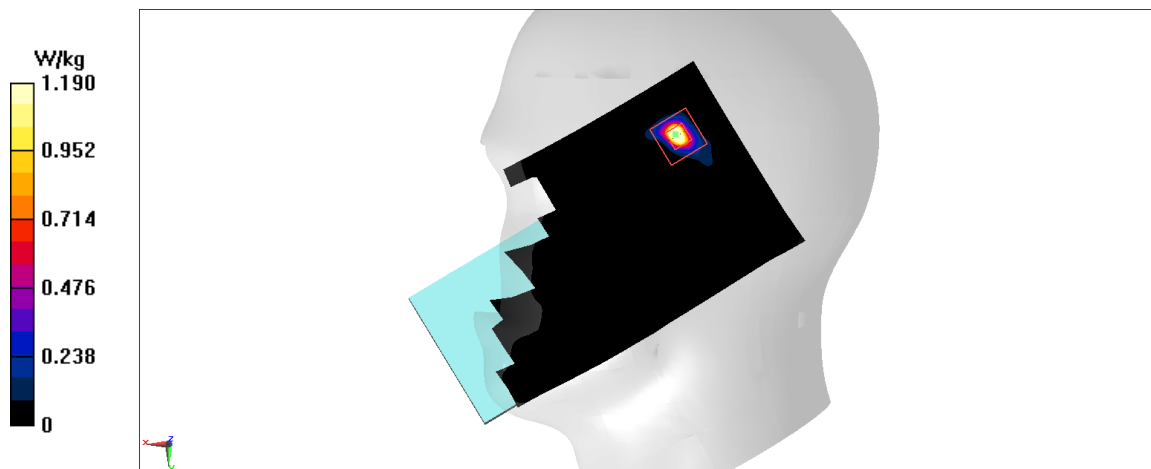


Fig A.33

WLAN_CH44 11a-6M Rear 10mm

Date: 3/9/2021

Electronics: DAE4 Sn536

Medium: head 5GHz

Medium parameters used: $f = 5220\text{MHz}$; $\sigma = 4.699 \text{ mho/m}$; $\epsilon_r = 36.11$; $\rho = 1000 \text{ kg/m}^3$

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

Communication System: WLAN 5220 Duty Cycle: 1: 1

Probe: EX3DV4 – SN7307 ConvF(5.61,5.61,5.61)

Area Scan (71x121x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 1.93 W/kg

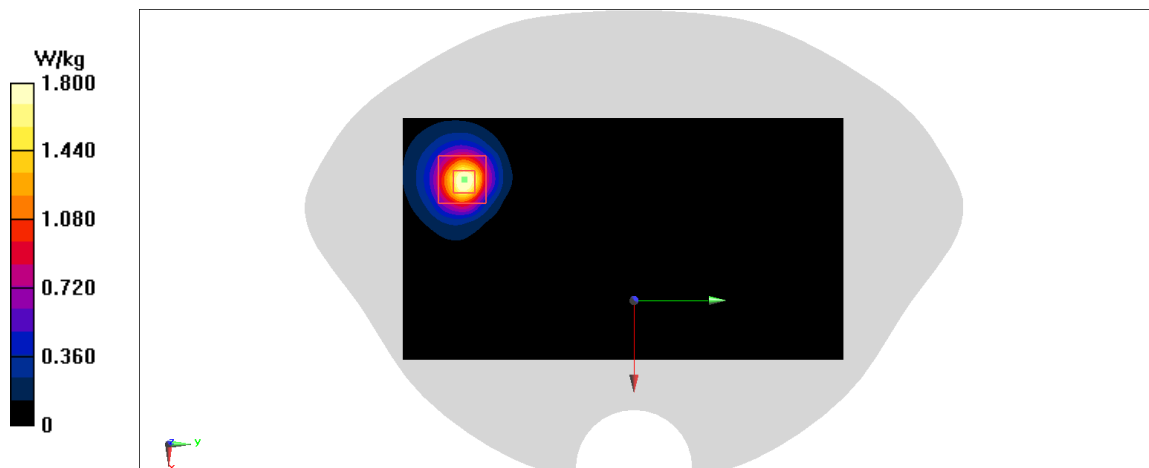
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 0.292 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 2.8 W/kg

SAR(1 g) = 0.797 W/kg; SAR(10 g) = 0.278 W/kg

Maximum value of SAR (measured) = 1.8 W/kg

**Fig A.34**

WLAN_CH52 11a-6M Rear 10mm

Date: 3/9/2021

Electronics: DAE4 Sn536

Medium: head 5GHz

Medium parameters used: $f = 5260\text{MHz}$; $\sigma = 4.739 \text{ mho/m}$; $\epsilon_r = 36.06$; $\rho = 1000 \text{ kg/m}^3$

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

Communication System: WLAN 5260 Duty Cycle: 1: 1

Probe: EX3DV4 – SN7307 ConvF(5.61,5.61,5.61)

Area Scan (71x121x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 0.84 W/kg

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

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

Peak SAR (extrapolated) = 1.31 W/kg

SAR(1 g) = 0.357 W/kg; SAR(10 g) = 0.125 W/kg

Maximum value of SAR (measured) = 0.83 W/kg

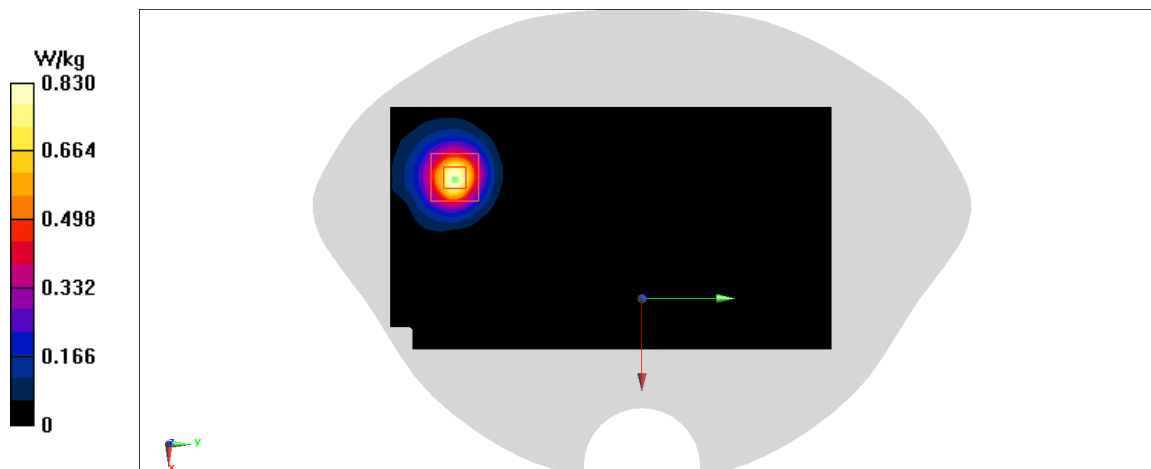


Fig A.35

PCS1900_CH810 Bottom Edge GPRS 10mm

Date: 3/8/2021

Electronics: DAE4 Sn536

Medium: body 1900 MHz

Medium parameters used: $f = 1909.8\text{MHz}$; $\sigma = 1.388\text{ mho/m}$; $\epsilon_r = 39.65$; $\rho = 1000\text{ kg/m}^3$

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

Communication System: PCS1900 1909.8 Duty Cycle: 1: 4

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

Area Scan (81x141x1): Interpolated grid: $dx=1.000\text{ mm}$, $dy=1.000\text{ mm}$

Maximum value of SAR (interpolated) = 9.27 W/kg

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

Reference Value = 48.85 V/m; Power Drift = -0.61 dB

Peak SAR (extrapolated) = 12.6 W/kg

SAR(1 g) = 5.71 W/kg; SAR(10 g) = 2.44 W/kg

Maximum value of SAR (measured) = 10.0 W/kg

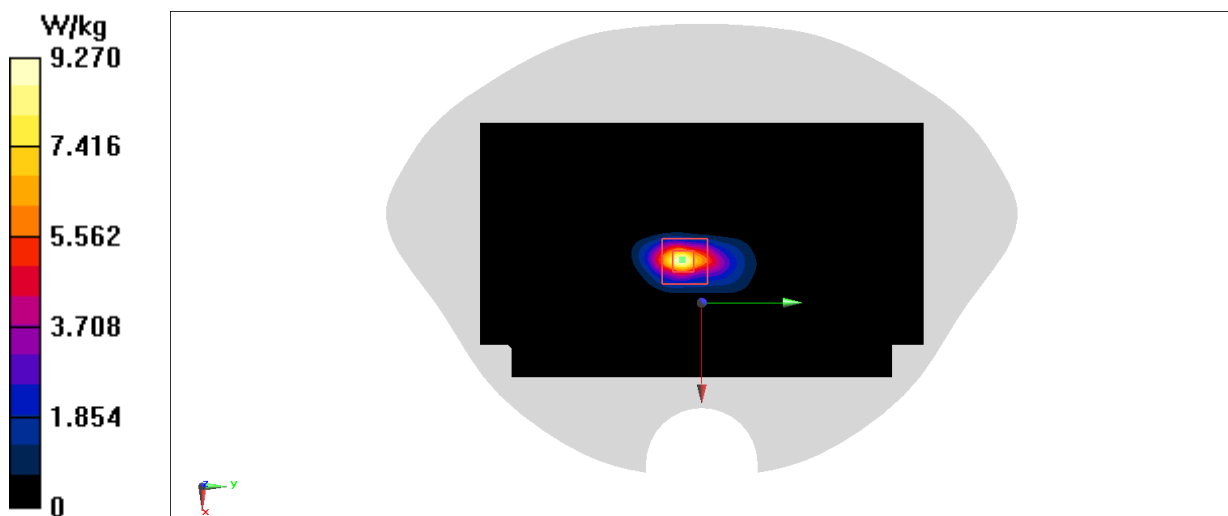


Fig A.36

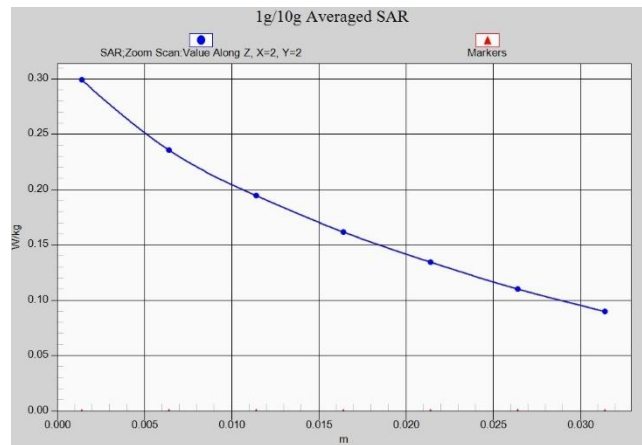


Fig. 1-1 Z-Scan at power reference point (850 MHz)

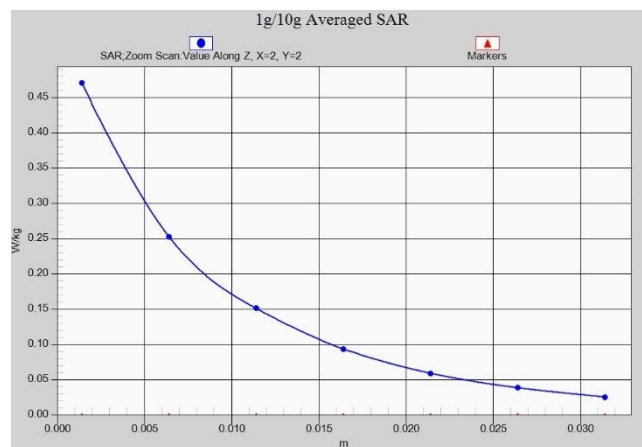


Fig. 1-2 Z-Scan at power reference point (850 MHz)



Fig. 1-3 Z-Scan at power reference point (1900 MHz)

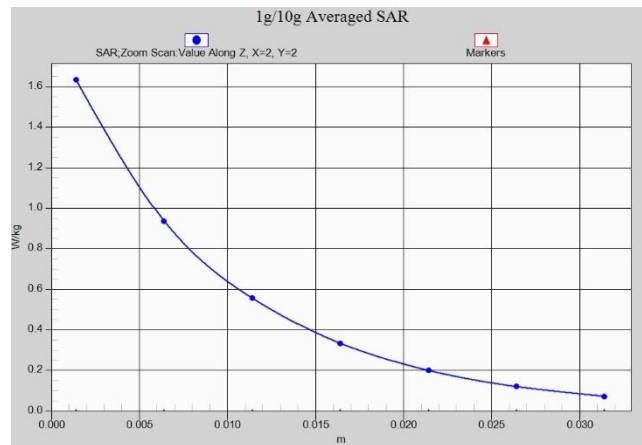


Fig. 1-4 Z-Scan at power reference point (1900 MHz)

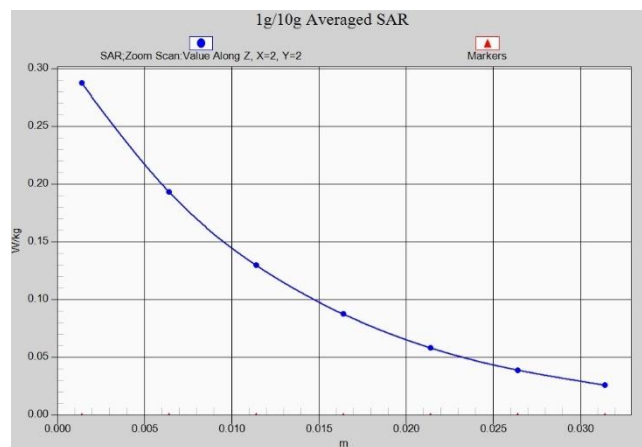


Fig. 1-5 Z-Scan at power reference point (WCDMA1900)

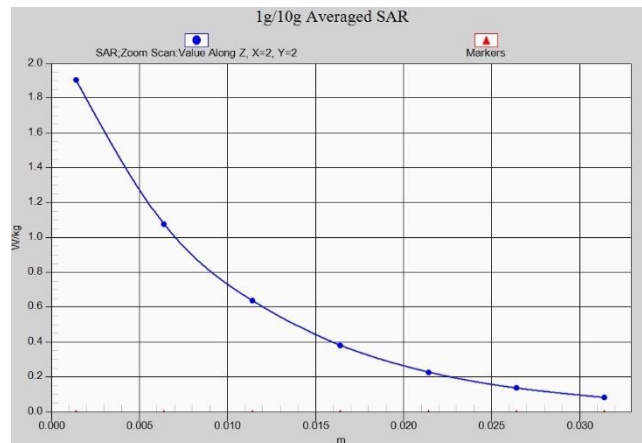


Fig. 1-6 Z-Scan at power reference point (WCDMA1900)

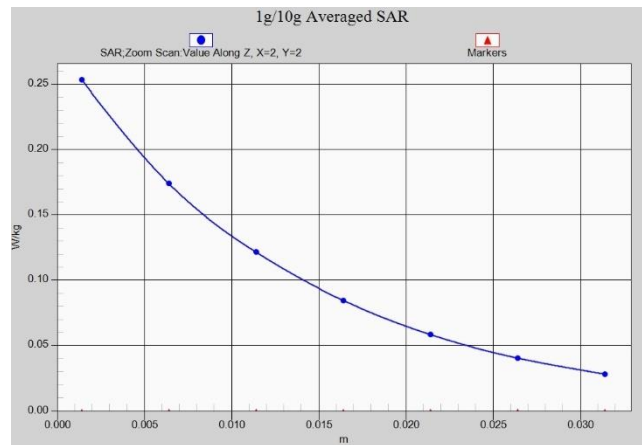


Fig. 1-7 Z-Scan at power reference point (WCDMA1700)

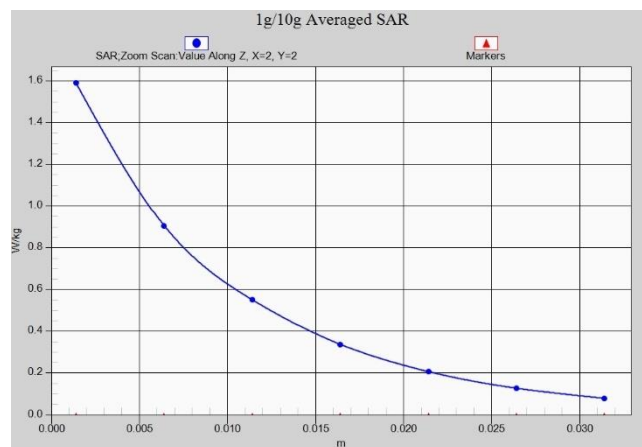


Fig. 1-8 Z-Scan at power reference point (WCDMA1700)

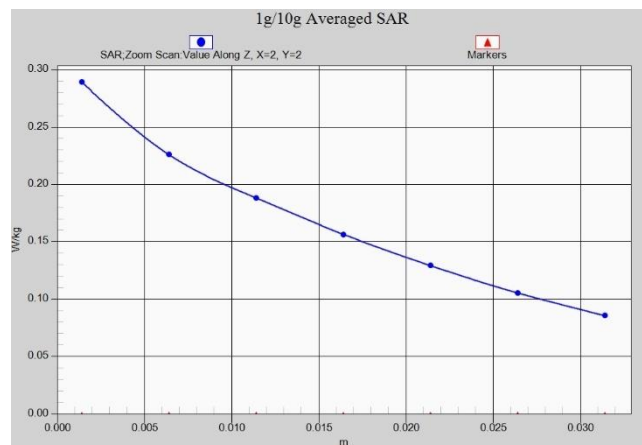


Fig. 1-9 Z-Scan at power reference point (WCDMA850)

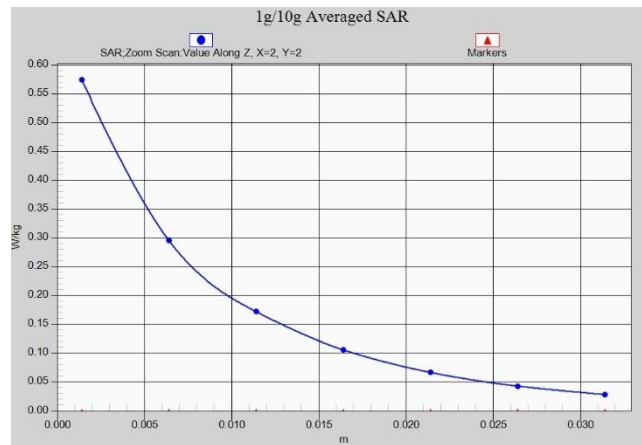


Fig. 1-10 Z-Scan at power reference point (WCDMA850)

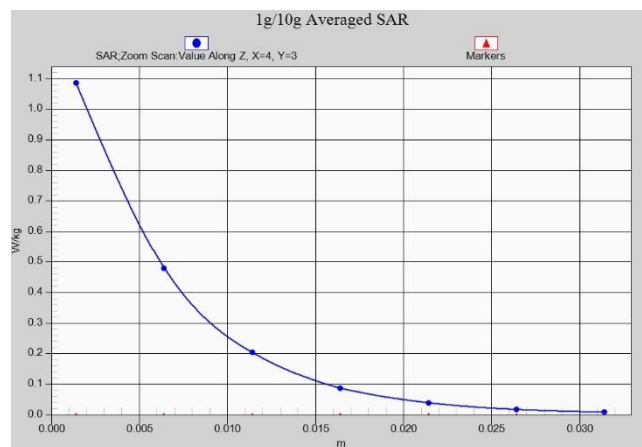


Fig. 1-11 Z-Scan at power reference point (LTE Band7)

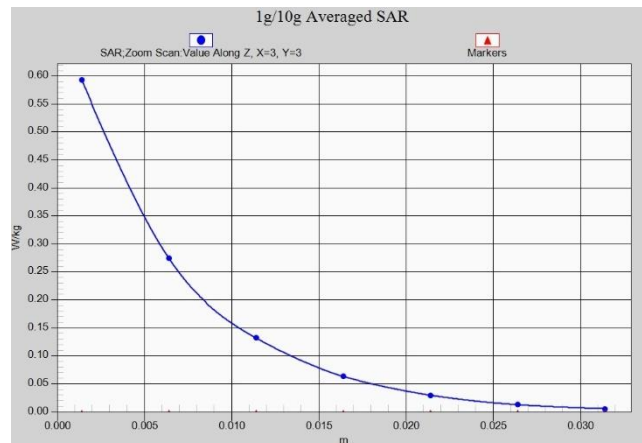


Fig. 1-12 Z-Scan at power reference point (LTE Band7)

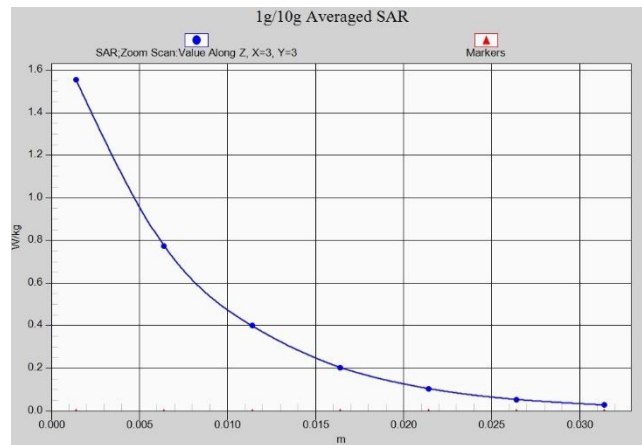


Fig. 1-13 Z-Scan at power reference point (LTE Band7)

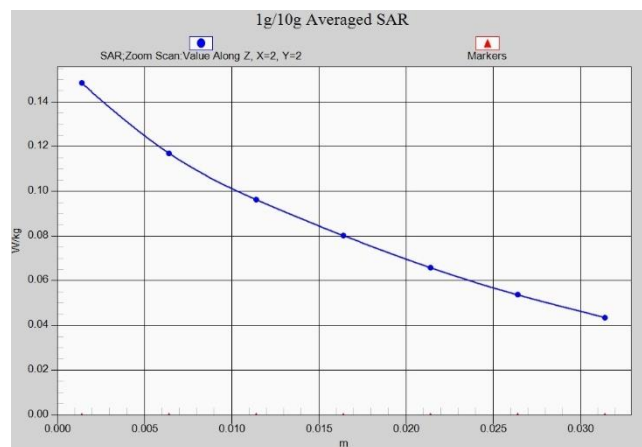


Fig. 1-14 Z-Scan at power reference point (LTE Band12)

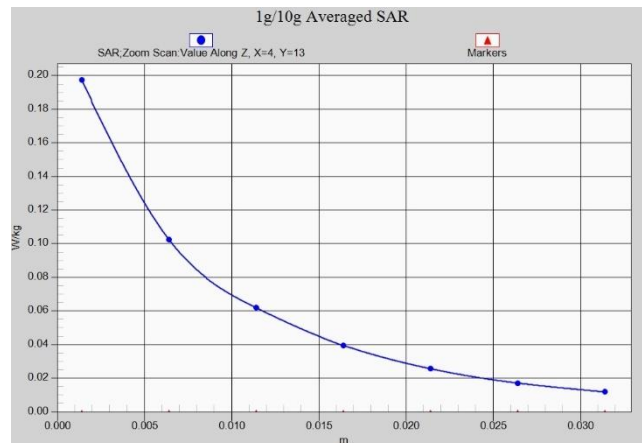


Fig. 1-15 Z-Scan at power reference point (LTE Band12)

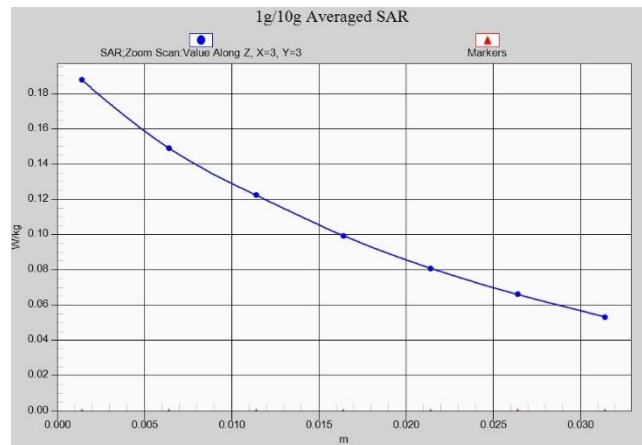


Fig. 1-16 Z-Scan at power reference point (LTE Band13)

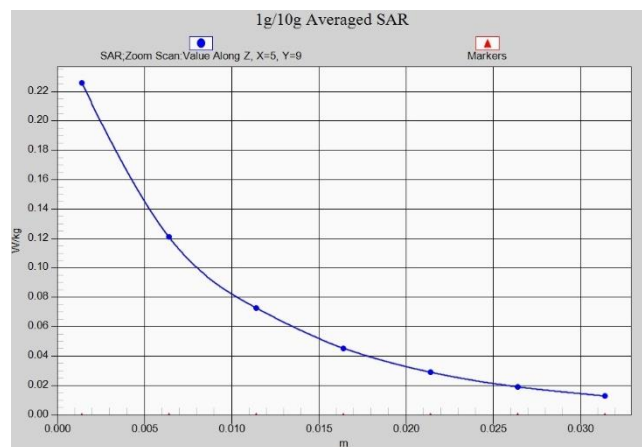


Fig. 1-17 Z-Scan at power reference point (LTE Band13)

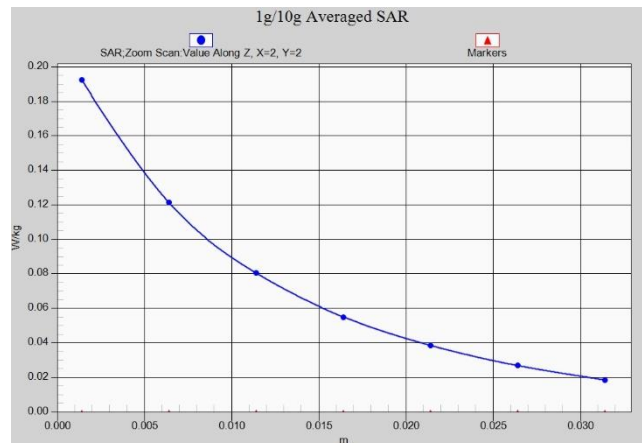


Fig. 1-18 Z-Scan at power reference point (LTE Band25)

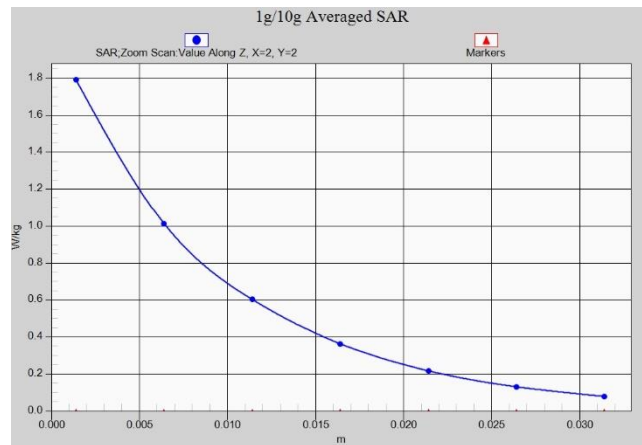


Fig. 1-19 Z-Scan at power reference point (LTE Band25)

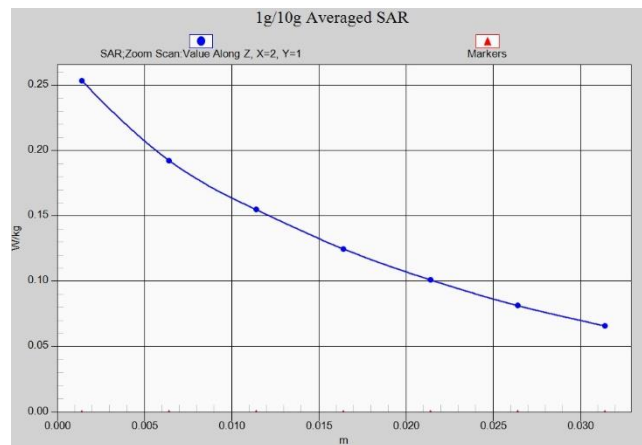


Fig. 1-20 Z-Scan at power reference point (LTE Band26)

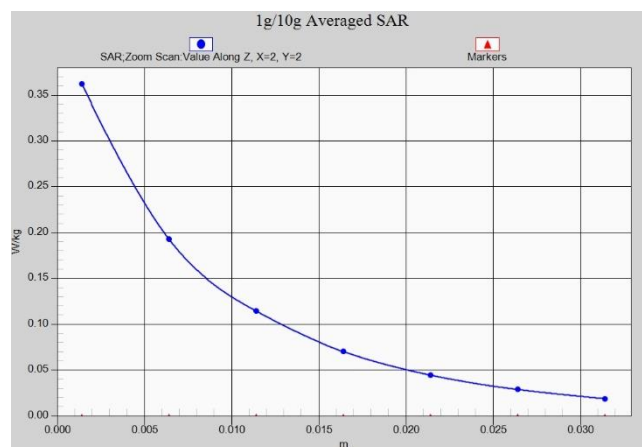


Fig. 1-21 Z-Scan at power reference point (LTE Band26)

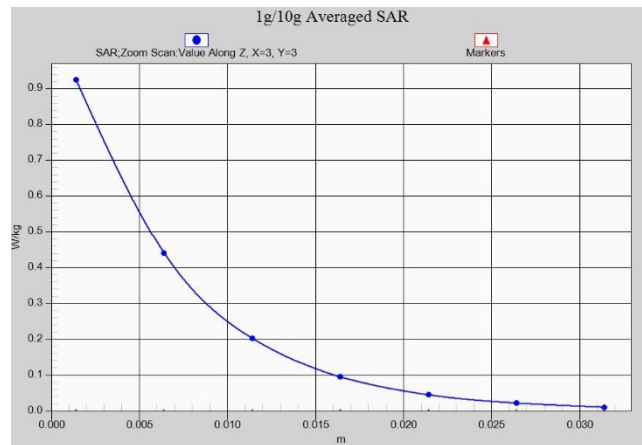


Fig. 1-22 Z-Scan at power reference point (LTE Band41)

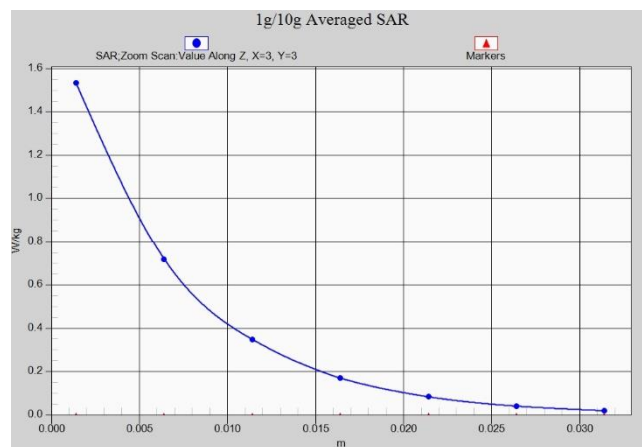


Fig. 1-23 Z-Scan at power reference point (LTE Band41)

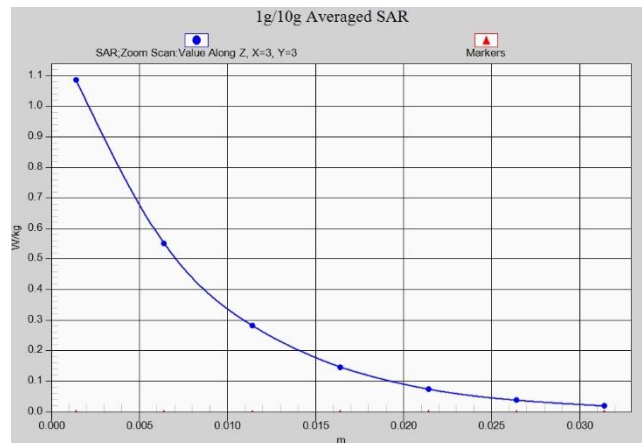


Fig. 1-24 Z-Scan at power reference point (LTE Band41)

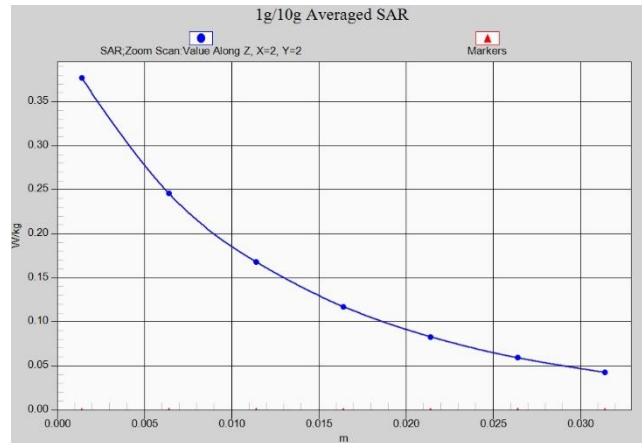


Fig. 1-25 Z-Scan at power reference point (LTE Band66)

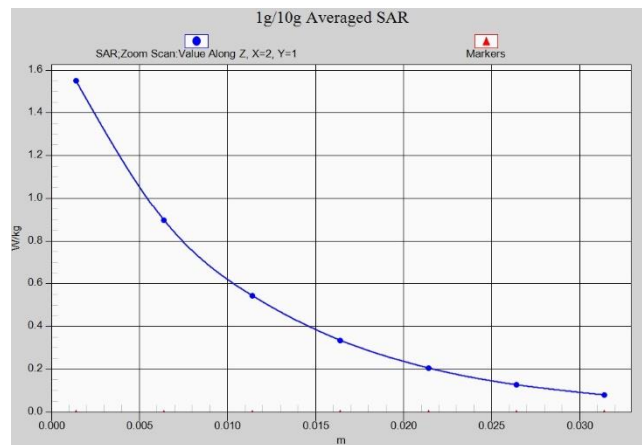


Fig. 1-26 Z-Scan at power reference point (LTE Band66)

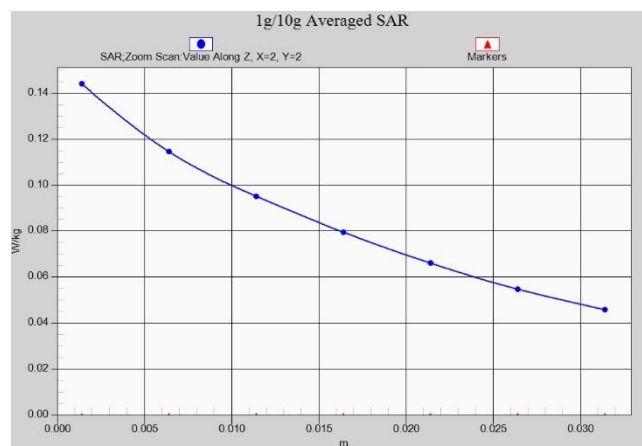


Fig. 1-27 Z-Scan at power reference point (LTE Band71)

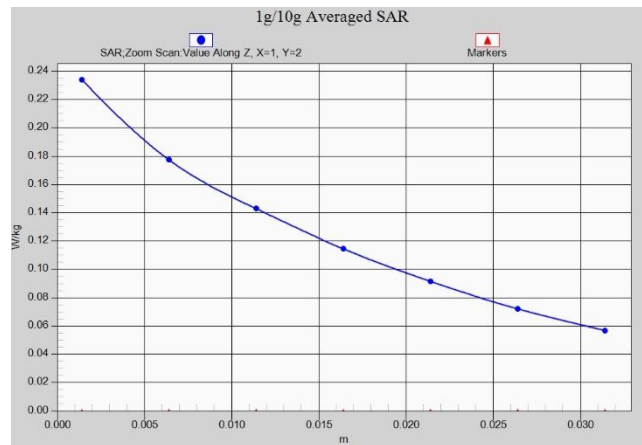


Fig. 1-28 Z-Scan at power reference point (LTE Band71)

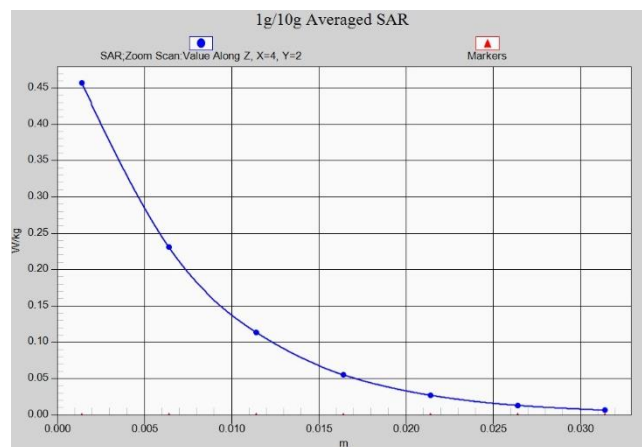


Fig. 1-29 Z-Scan at power reference point (wifi2450)

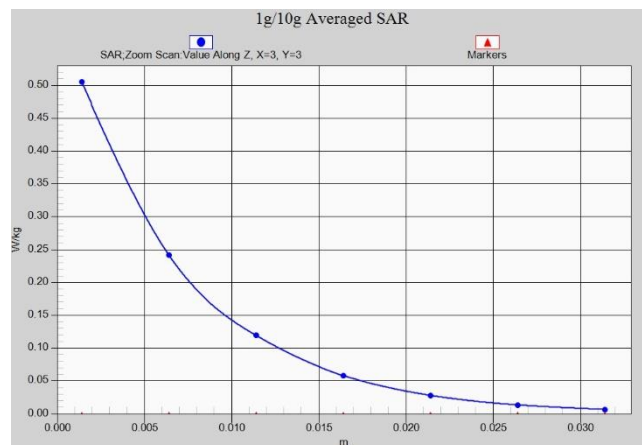


Fig. 1-30 Z-Scan at power reference point (wifi2450)

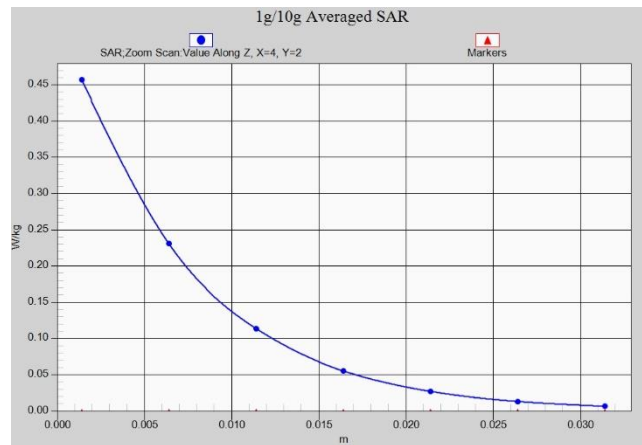


Fig. 1-31 Z-Scan at power reference point (wifi2450)

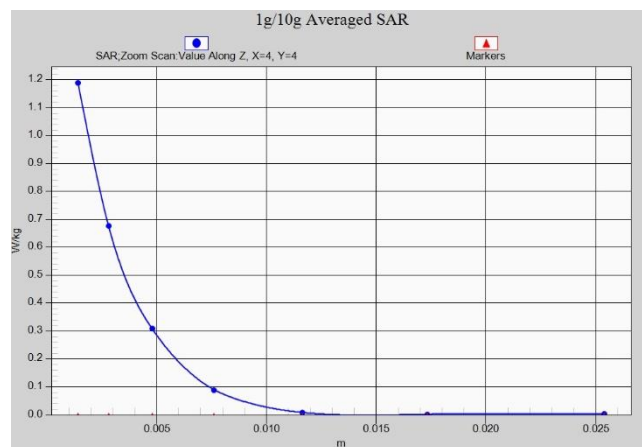


Fig. 1-32 Z-Scan at power reference point (wifi5G)

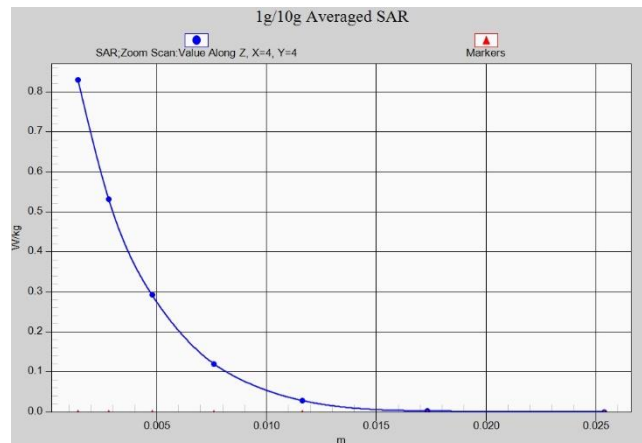


Fig. 1-33 Z-Scan at power reference point (wifi5G)

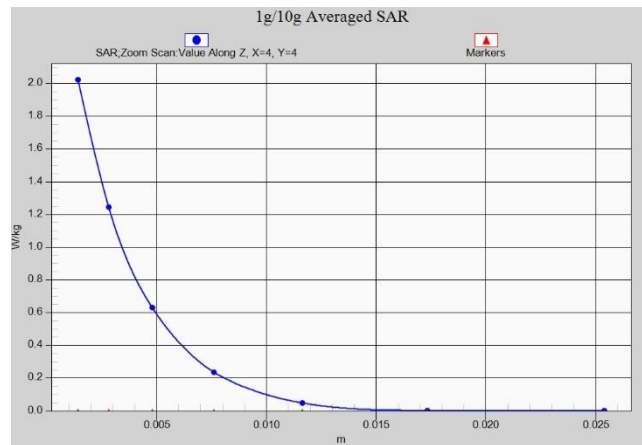


Fig. 1-34 Z-Scan at power reference point (wifi5G)

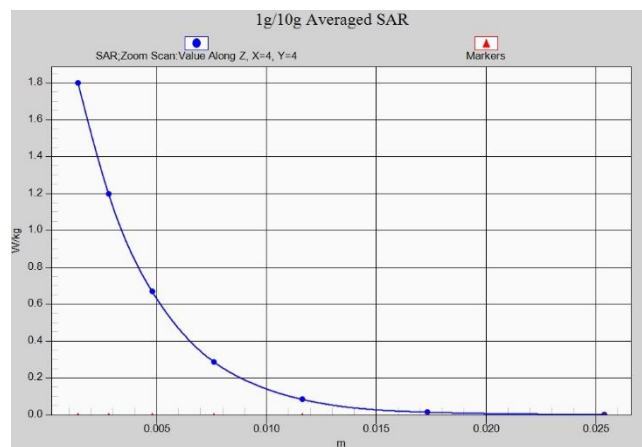


Fig. 1-35 Z-Scan at power reference point (wifi5G)

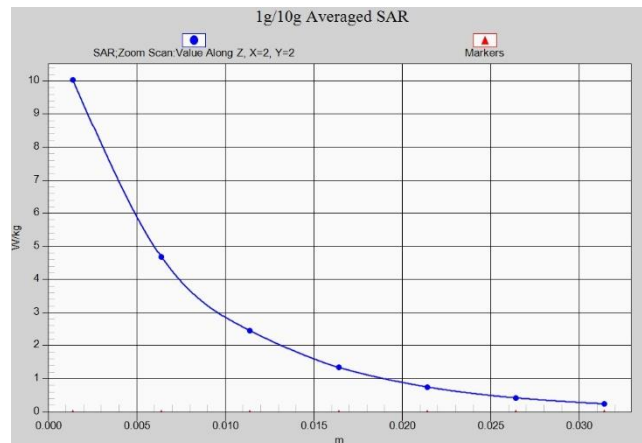


Fig. 1-36 Z-Scan at power reference point (GSM900)

ANNEX B System Verification Results

750 MHz

Date: 3/5/2021

Electronics: DAE4 Sn536

Medium: Head 750 MHz

Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.89 \text{ mho/m}$; $\epsilon_r = 42.5$; $\rho = 1000 \text{ kg/m}^3$

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 = 58.74 V/m ; Power Drift = -0.02

Fast SAR: SAR(1 g) = 2.19 W/kg ; SAR(10 g) = 1.38 W/kg

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

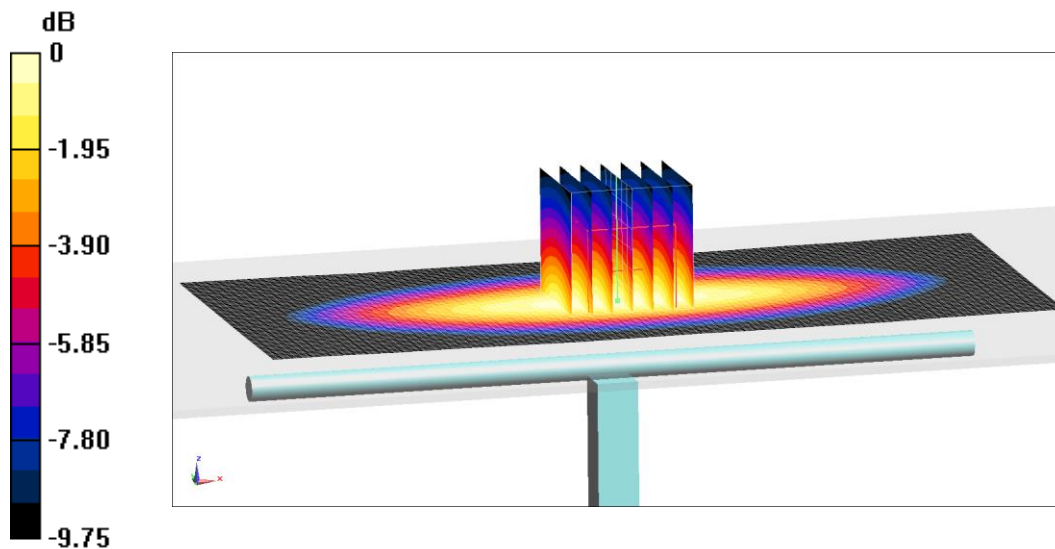
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 58.74 V/m ; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 3.28 W/kg

SAR(1 g) = 2.16 W/kg ; SAR(10 g) = 1.36 W/kg

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



0 dB = 2.85 W/kg = 4.55 dB W/kg

Fig.B.1 validation 750 MHz 250mW

835 MHz

Date: 3/6/2021

Electronics: DAE4 Sn536

Medium: Head 835 MHz

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.888 \text{ mho/m}$; $\epsilon_r = 40.69$; $\rho = 1000 \text{ kg/m}^3$

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 = 62.83 V/m ; Power Drift = 0.1

Fast SAR: SAR(1 g) = 2.37 W/kg ; SAR(10 g) = 1.53 W/kg

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

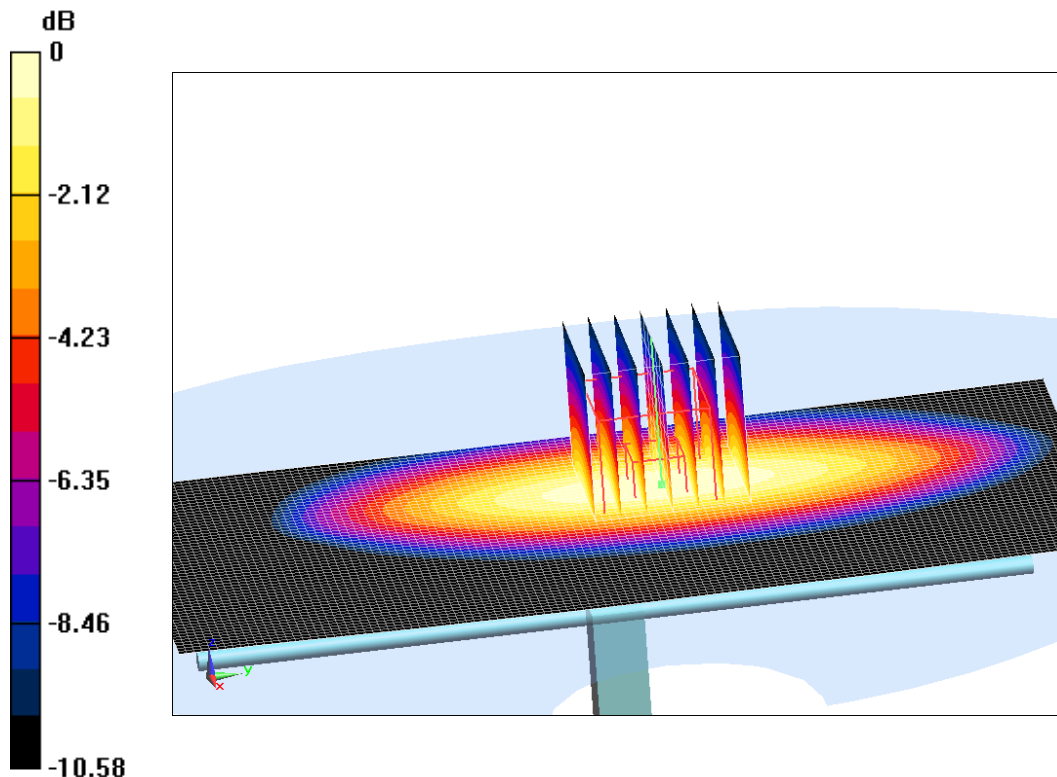
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 62.83 V/m ; Power Drift = 0.1 dB

Peak SAR (extrapolated) = 3.66 W/kg

SAR(1 g) = 2.43 W/kg ; SAR(10 g) = 1.55 W/kg

Maximum value of SAR (measured) = 3.27 W/kg



0 dB = 3.27 W/kg = 5.15 dB W/kg

Fig.B.2 validation 835 MHz 250mW

1750 MHz

Date: 3/7/2021

Electronics: DAE4 Sn536

Medium: Head 1750 MHz

Medium parameters used: $f = 1750 \text{ MHz}$; $\sigma = 1.354 \text{ mho/m}$; $\epsilon_r = 40.2$; $\rho = 1000 \text{ kg/m}^3$

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

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

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

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

Reference Value = 106.22 V/m ; Power Drift = 0.01

Fast SAR: SAR(1 g) = 9.29 W/kg ; SAR(10 g) = 4.87 W/kg

Maximum value of SAR (interpolated) = 13.78 W/kg

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

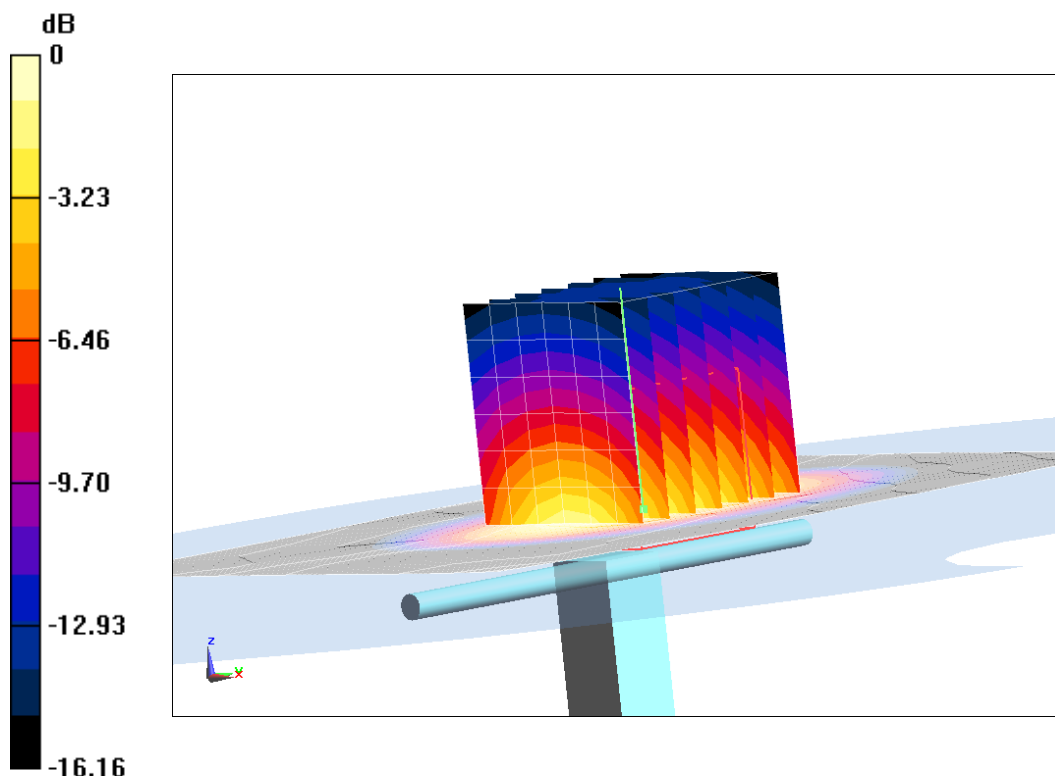
$dz=5\text{mm}$

Reference Value = 106.22 V/m ; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 16.83 W/kg

SAR(1 g) = 9.09 W/kg ; SAR(10 g) = 4.87 W/kg

Maximum value of SAR (measured) = 13.92 W/kg



0 dB = 13.92 W/kg = 11.44 dB W/kg

Fig.B.3 validation 1750 MHz 250mW

1900 MHz

Date: 3/8/2021

Electronics: DAE4 Sn536

Medium: Head 1900 MHz

Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.411 \text{ mho/m}$; $\epsilon_r = 39.38$; $\rho = 1000 \text{ kg/m}^3$

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: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Reference Value = 108.46 V/m; Power Drift = -0.04

Fast SAR: SAR(1 g) = 9.85 W/kg; SAR(10 g) = 5.22 W/kg

Maximum value of SAR (interpolated) = 14.99 W/kg

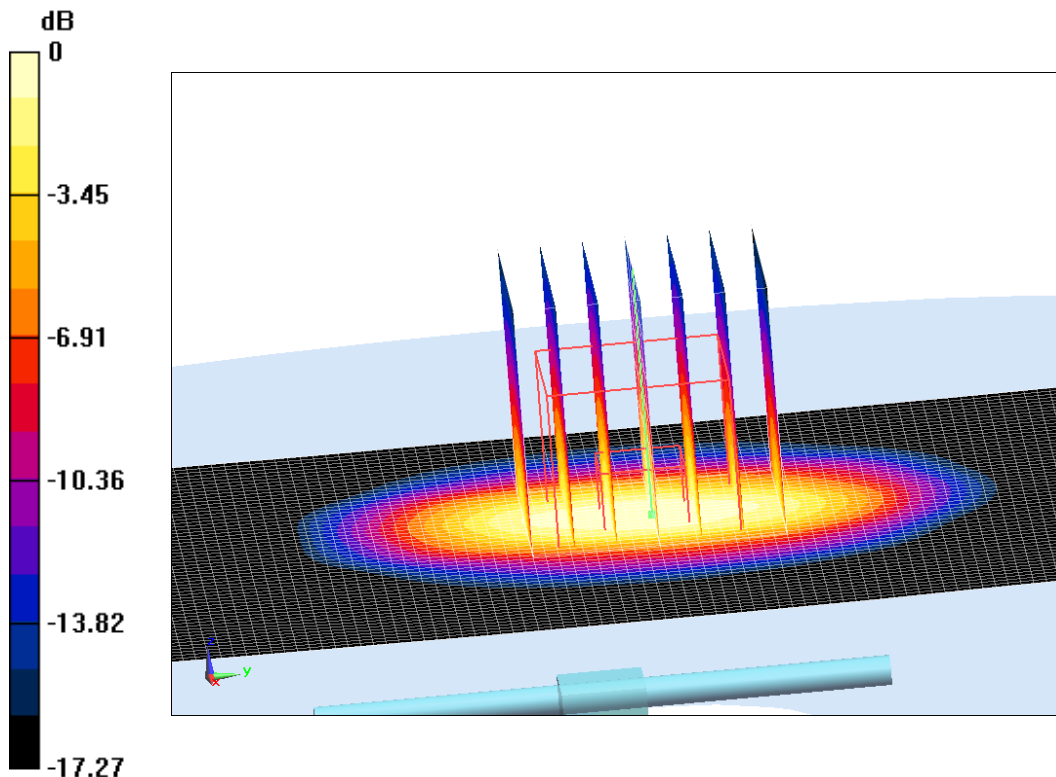
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 108.46 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 18.42 W/kg

SAR(1 g) = 9.99 W/kg; SAR(10 g) = 5.13 W/kg

Maximum value of SAR (measured) = 15.29 W/kg



0 dB = 15.29 W/kg = 11.84 dB W/kg

Fig.B.4 validation 1900 MHz 250mW



2450 MHz

Date: 3/9/2021

Electronics: DAE4 Sn536

Medium: Head 2450 MHz

Medium parameters used: $f = 2450 \text{ MHz}$; $\sigma = 1.818 \text{ mho/m}$; $\epsilon_r = 39.83$; $\rho = 1000 \text{ kg/m}^3$

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: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Reference Value = 118.99 V/m ; Power Drift = -0.04

Fast SAR: SAR(1 g) = 13.28 W/kg ; SAR(10 g) = 6.14 W/kg

Maximum value of SAR (interpolated) = 21.64 W/kg

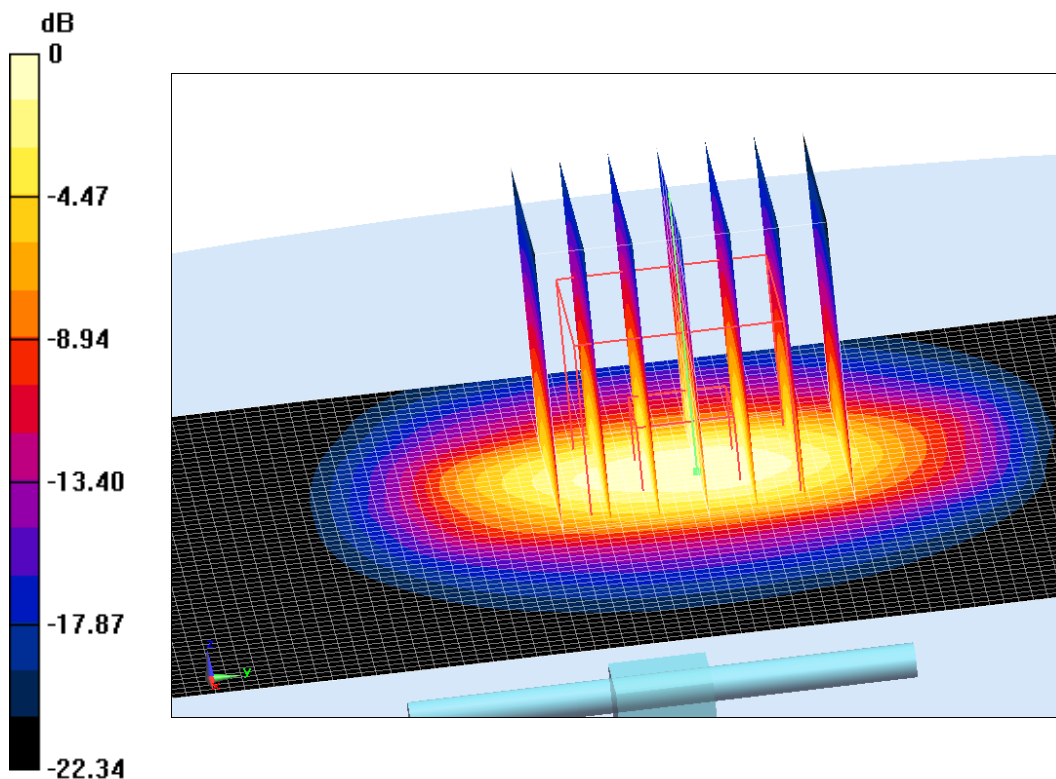
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 118.99 V/m ; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 25.69 W/kg

SAR(1 g) = 13 W/kg ; SAR(10 g) = 6.2 W/kg

Maximum value of SAR (measured) = 21.45 W/kg



0 dB = 21.45 W/kg = 13.31 dB W/kg

Fig.B.5 validation 2450 MHz 250mW

2600 MHz

Date: 3/10/2021

Electronics: DAE4 Sn536

Medium: Head 2600 MHz

Medium parameters used: $f = 2600$ MHz; $\sigma = 1.956$ mho/m; $\epsilon_r = 39.01$; $\rho = 1000$ 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 = 123.36 V/m; Power Drift = 0.02

Fast SAR: SAR(1 g) = 14.07 W/kg; SAR(10 g) = 6.2 W/kg

Maximum value of SAR (interpolated) = 23.88 W/kg

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

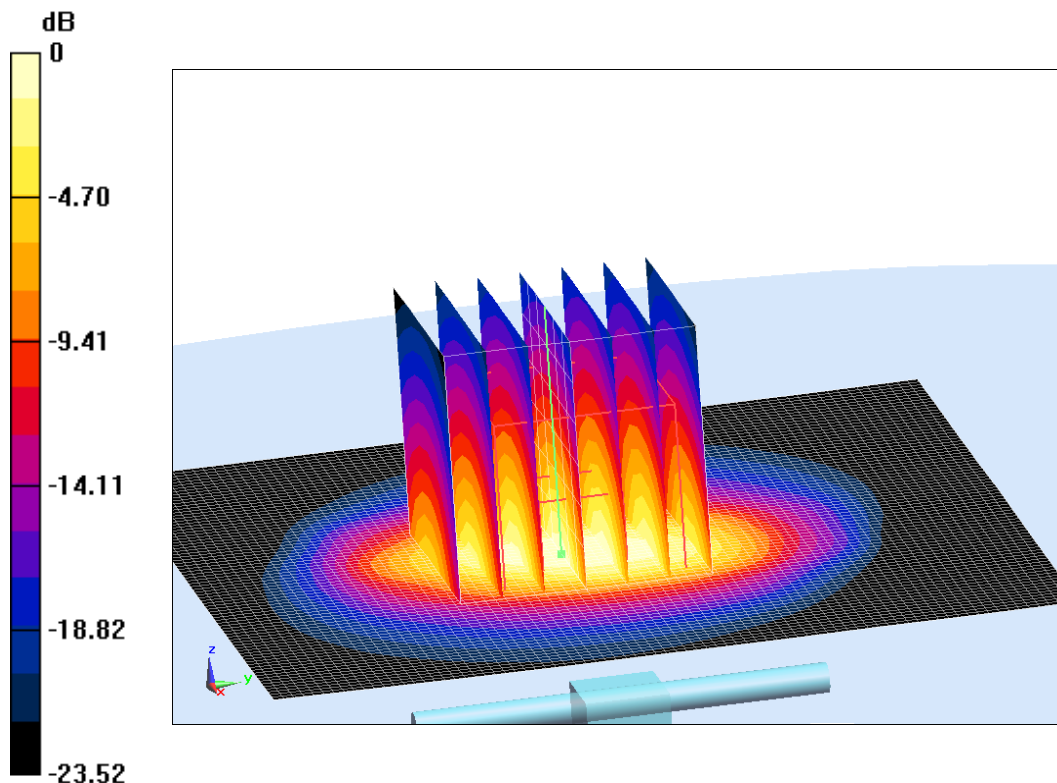
dz=5mm

Reference Value =123.36 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 29.43 W/kg

SAR(1 g) = 14.2 W/kg; SAR(10 g) = 6.34 W/kg

Maximum value of SAR (measured) = 23.95 W/kg



0 dB = 23.95 W/kg = 13.79 dB W/kg

Fig.B.6 validation 2600 MHz 250mW

5250 MHz

Date: 3/11/2021

Electronics: DAE4 Sn536

Medium: Head 5250 MHz

Medium parameters used: $f = 5250 \text{ MHz}$; $\sigma = 4.729 \text{ mho/m}$; $\epsilon_r = 36.07$; $\rho = 1000 \text{ kg/m}^3$

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

Communication System: CW Frequency: 5250 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7307 ConvF(5.61,5.61,5.61)

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

Reference Value = 80.36 V/m; Power Drift = 0.02

Fast SAR: SAR(1 g) = 19.77 W/kg; SAR(10 g) = 5.78 W/kg

Maximum value of SAR (interpolated) = 18.06 W/kg

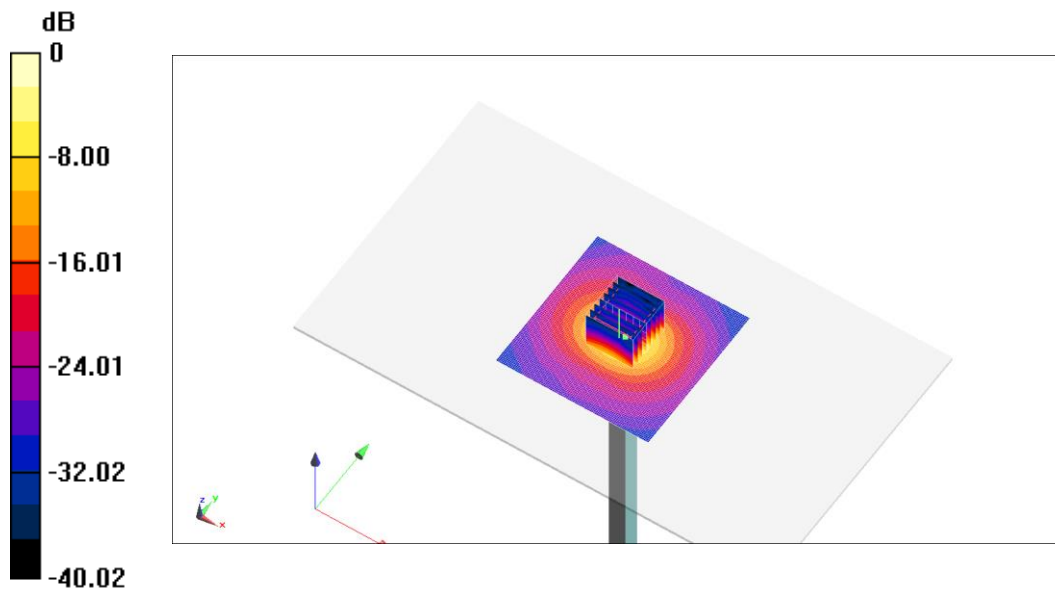
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value =80.36 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 28.46 W/kg

SAR(1 g) = 20 W/kg; SAR(10 g) = 5.79 W/kg

Maximum value of SAR (measured) = 18.62 W/kg



0 dB = 18.62 W/kg = 12.7 dB W/kg

Fig.B.7 validation 5250 MHz 250mW

5600 MHz

Date: 3/12/2021

Electronics: DAE4 Sn536

Medium: Head 5600 MHz

Medium parameters used: $f = 5600 \text{ MHz}$; $\sigma = 5.153 \text{ mho/m}$; $\epsilon_r = 35.75$; $\rho = 1000 \text{ kg/m}^3$

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

Communication System: CW Frequency: 5600 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7307 ConvF(5.1,5.1,5.1)

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

Reference Value = 79.4 V/m ; Power Drift = -0.1

Fast SAR: SAR(1 g) = 20.89 W/kg ; SAR(10 g) = 5.79 W/kg

Maximum value of SAR (interpolated) = 19.84 W/kg

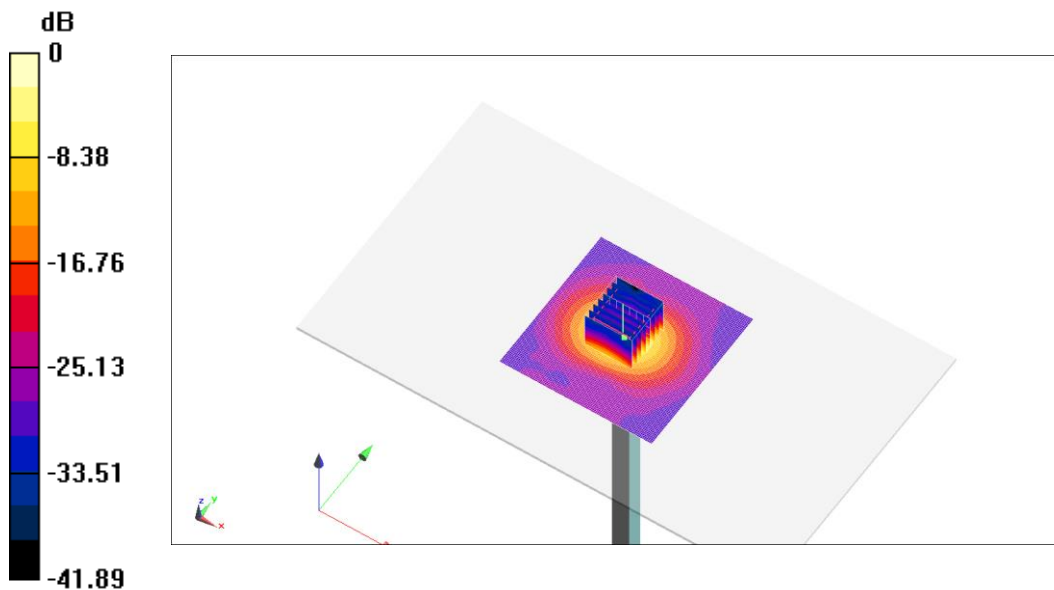
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 79.4 V/m ; Power Drift = -0.1 dB

Peak SAR (extrapolated) = 31.06 W/kg

SAR(1 g) = 20.88 W/kg ; SAR(10 g) = 5.88 W/kg

Maximum value of SAR (measured) = 20.39 W/kg



0 dB = $20.39 \text{ W/kg} = 13.09 \text{ dB W/kg}$

Fig.B.8 validation 5600 MHz 250mW

5750 MHz

Date: 3/13/2021

Electronics: DAE4 Sn536

Medium: Head 5750 MHz

Medium parameters used: $f = 5750 \text{ MHz}$; $\sigma = 5.201 \text{ mho/m}$; $\epsilon_r = 35.73$; $\rho = 1000 \text{ kg/m}^3$

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

Communication System: CW Frequency: 5750 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7307 ConvF(5.05,5.05,5.05)

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

Reference Value = 76.15 V/m; Power Drift = -0.02

Fast SAR: SAR(1 g) = 20.29 W/kg; SAR(10 g) = 5.74 W/kg

Maximum value of SAR (interpolated) = 20.16 W/kg

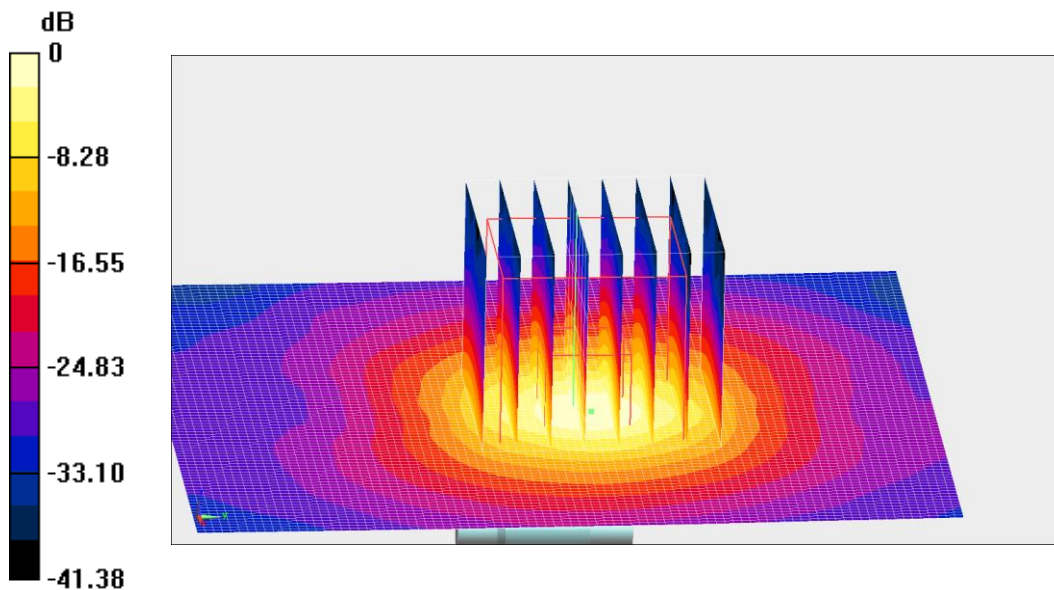
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value =76.15 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 32.38 W/kg

SAR(1 g) = 19.9 W/kg; SAR(10 g) = 5.75 W/kg

Maximum value of SAR (measured) = 19.65 W/kg



0 dB = 19.65 W/kg = 12.93 dB W/kg

Fig.B.9 validation 5750 MHz 250mW

The SAR system verification must be required that the area scan estimated 1-g SAR is within 3% of the zoom scan 1-g SAR.

Table B.1 Comparison between area scan and zoom scan for system verification



Date	Band	Position	Area scan (1g)	Zoom scan (1g)	Drift (%)
2021/3/5	750 MHz	Head	2.19	2.16	1.39
2021/3/6	835 MHz	Head	2.37	2.43	-2.47
2021/3/7	1750 MHz	Head	9.29	9.09	2.20
2021/3/8	1900 MHz	Head	9.85	9.99	-1.40
2021/3/9	2450 MHz	Head	13.28	13	2.15
2021/3/10	2600 MHz	Head	14.07	14.2	-0.92