WCDMA 1900 Body Rear High

Date: 2018-5-28

Electronics: DAE4 Sn1525

Medium: Body 1900 MHz

Medium parameters used (interpolated): f = 1907.6 MHz; σ = 1.592 mho/m; εr = 53.15; ρ = 1000 kg/m^3

Ambient Temperature: 22.9ºC Liquid Temperature: 22.5ºC

Communication System: WCDMA 1900 Frequency: 1907.6 MHz Duty Cycle: 1:1

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

Area Scan (71x131x1): 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 = 8.127 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 1.90 W/kg

SAR(1 g) = 1.08 W/kg; SAR(10 g) = 0.570 W/kg

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

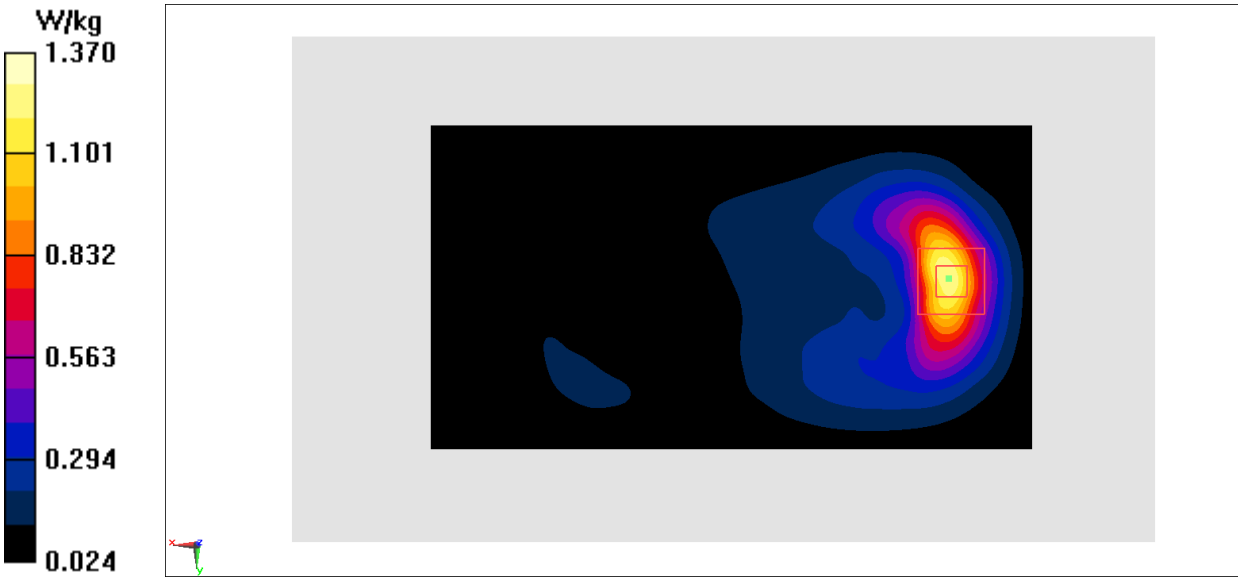

Fig.10 WCDMA1900

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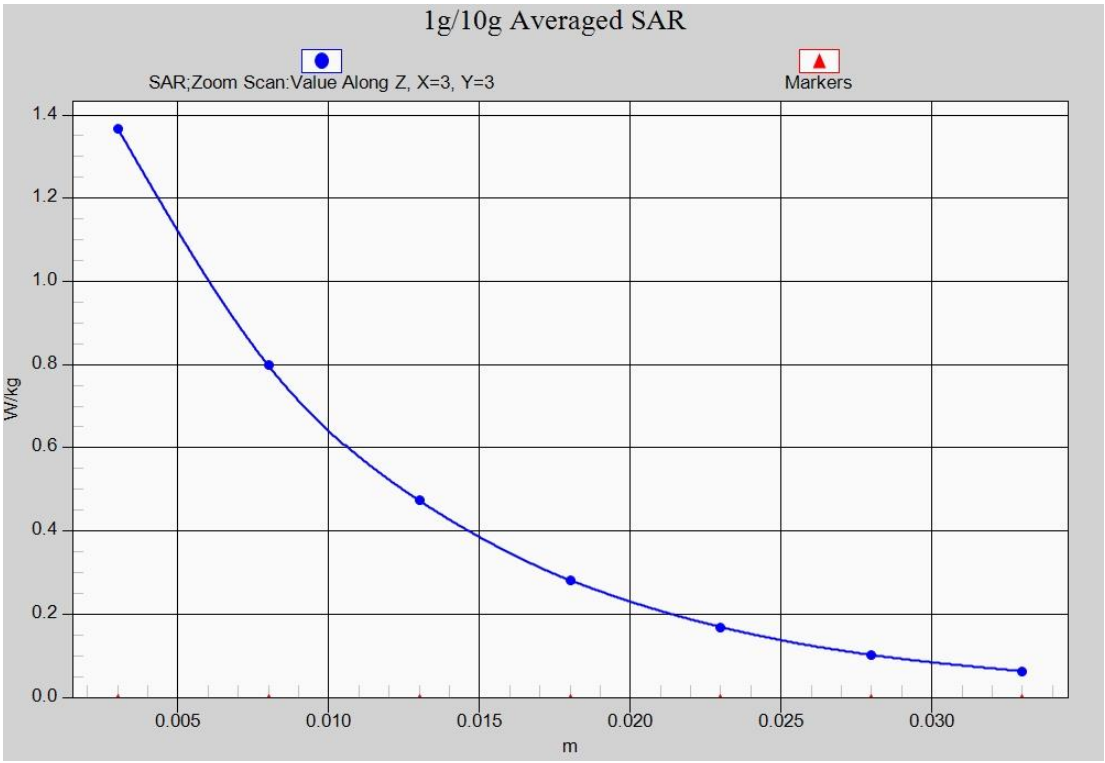

Fig. 10-1 Z-Scan at power reference point (WCDMA1900)

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LTE Band2 Right Cheek High with QPSK_20M_1RB_Middle

Date: 2018-5-28
Electronics: DAE4 Sn1525
Medium: Head 1900 MHz
Medium parameters used: f = 1900 MHz; σ =1.432. mho/m; εr = 40.81; ρ = 1000 kg/m^3
Ambient Temperature: 22.9ºC Liquid Temperature: 22.5ºC
Communication System: LTE Band2 Frequency: 1900 MHz Duty Cycle: 1:1
Probe: EX3DV4– SN7464 ConvF(8.39, 8.39, 8.39)

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

Maximum value of SAR (interpolated) = 0.246 W/kg

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

Reference Value = 4.736 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 0.291 W/kg
SAR(1 g) = 0.187 W/kg; SAR(10 g) = 0.113 W/kg
Maximum value of SAR (measured) = 0.223 W/kg

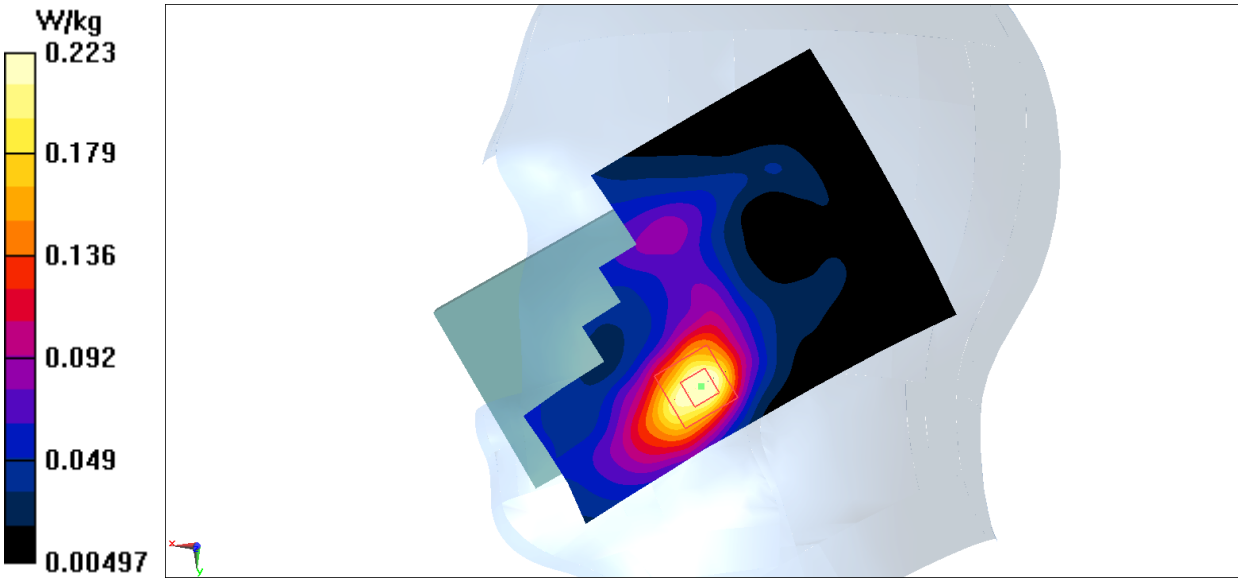

Fig.11 LTE Band2

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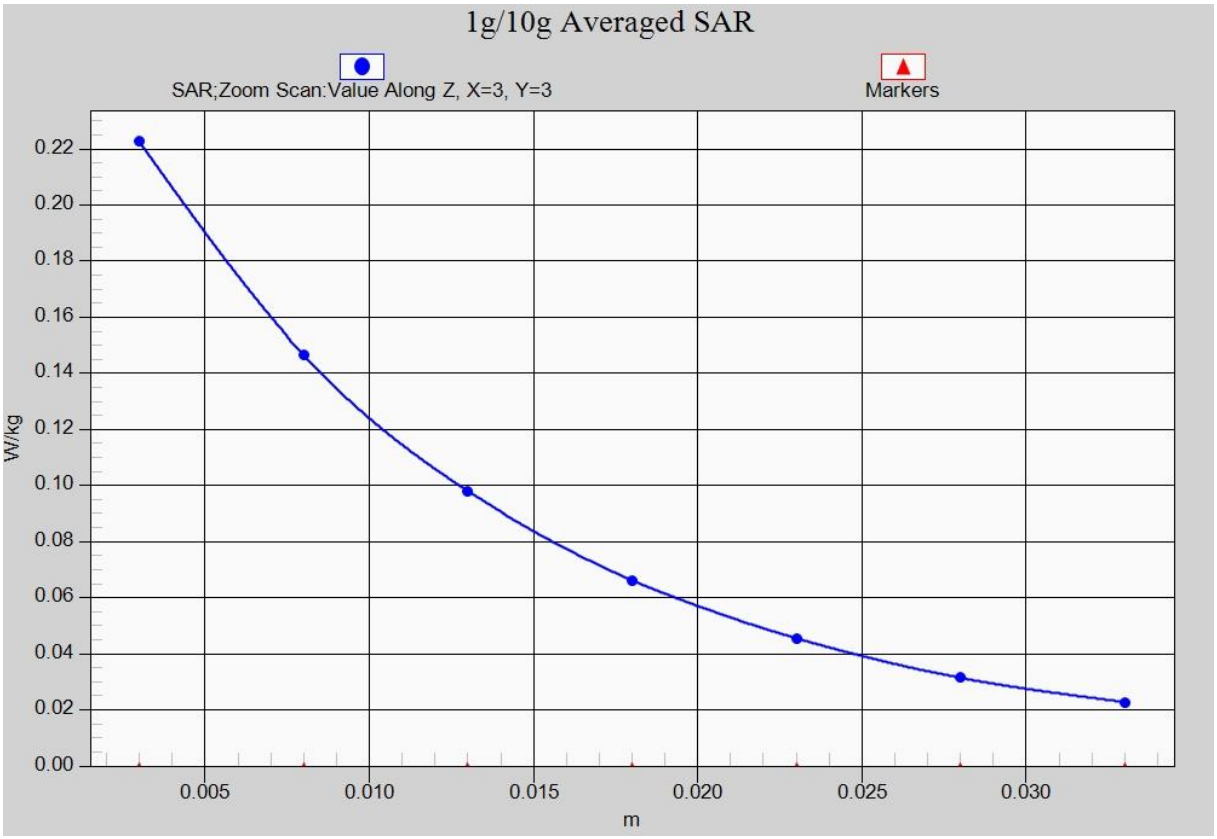

Fig. 11-1 Z-Scan at power reference point (LTE Band2)

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LTE Band2 Body Rear High with QPSK_20M_1RB_Middle

Date: 2018-5-28
Electronics: DAE4 Sn1525
Medium: Body 1900 MHz
Medium parameters used: f = 1900 MHz; σ = 1.548 mho/m; εr = 52.94; ρ = 1000 kg/m^3
Ambient Temperature: 22.9ºC Liquid Temperature: 22.5ºC
Communication System: LTE Band2 Frequency: 1900 MHz Duty Cycle: 1:1
Probe: EX3DV4– SN7464 ConvF(8.32, 8.32, 8.32)

Area Scan (71x131x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.17 W/kg

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

Reference Value = 7.150 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 1.84 W/kg
SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.539 W/kg
Maximum value of SAR (measured) = 1.30 W/kg

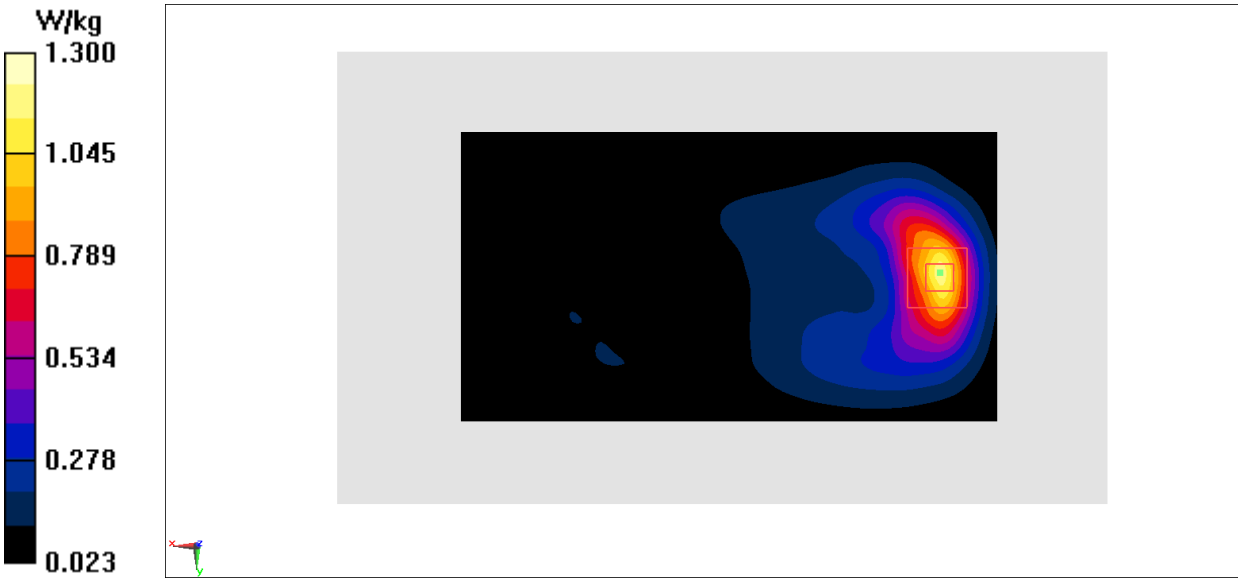

Fig.12 LTE Band2

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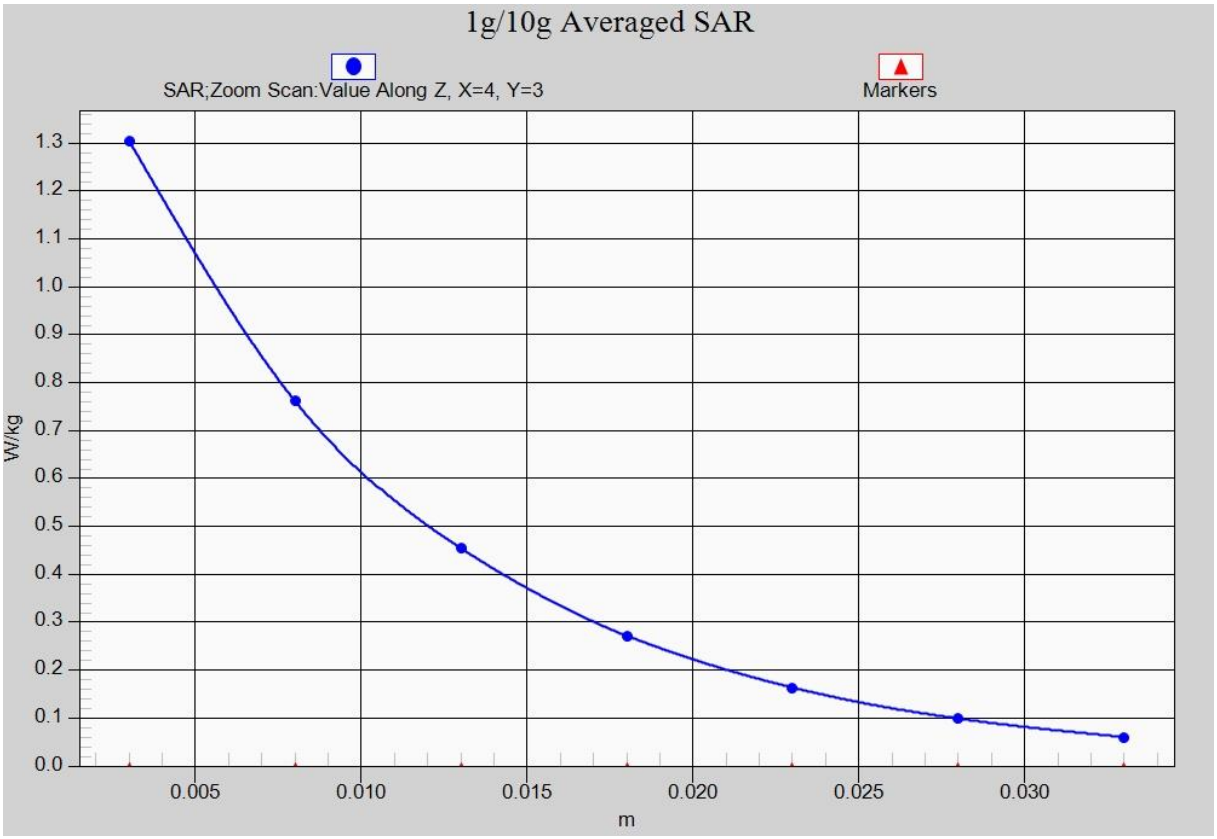

Fig. 12-1 Z-Scan at power reference point (LTE Band2)

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LTE Band5 Right Cheek Low with QPSK_10M_1RB_High

Date: 2018-5-27

Electronics: DAE4 Sn1525

Medium: Head 850 MHz

Medium parameters used (interpolated): f = 829 MHz; σ = 0.893 mho/m; εr = 42.061; ρ = 1000 kg/m^3

Ambient Temperature: 22.9ºC Liquid Temperature: 22.5ºC

Communication System: LTE Band5 Frequency: 829 MHz Duty Cycle: 1:1

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

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

Maximum value of SAR (interpolated) = 0.199 W/kg

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

Reference Value = 3.703 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.225 W/kg

SAR(1 g) = 0.182 W/kg; SAR(10 g) = 0.139 W/kg

Maximum value of SAR (measured) = 0.219 W/kg

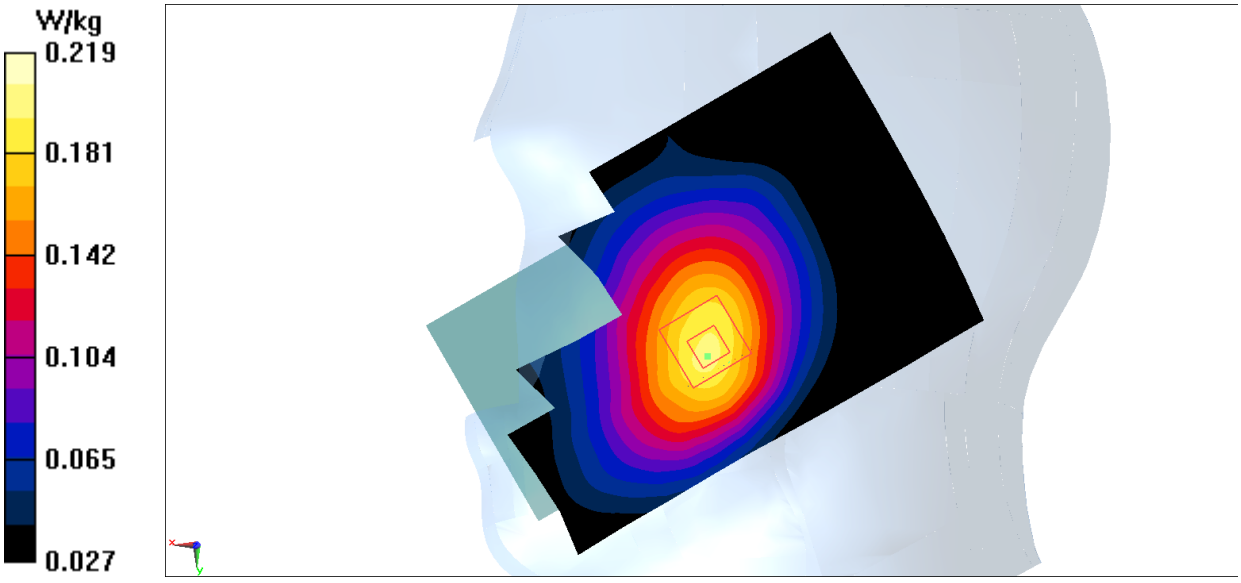

Fig.13 LTE Band5

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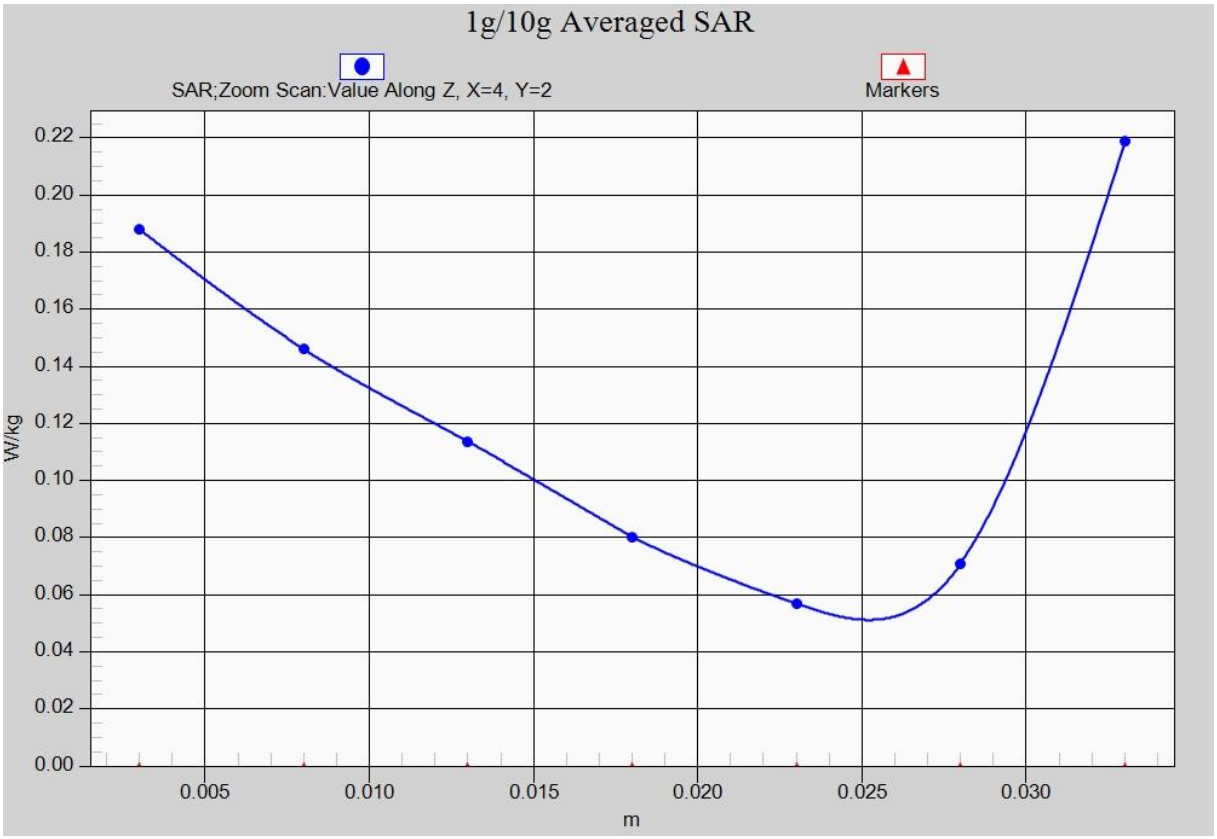

Fig. 13-1 Z-Scan at power reference point (LTE Band5)

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LTE Band5 Body Rear Low with QPSK_10M_1RB_High

Date: 2018-5-27

Electronics: DAE4 Sn1525

Medium: Body 850 MHz

Medium parameters used (interpolated): f = 829 MHz; σ = 1.012 mho/m; εr = 55.584; ρ = 1000 kg/m^3

Ambient Temperature: 22.9ºC Liquid Temperature: 22.5ºC

Communication System: LTE Band5 Frequency: 829 MHz Duty Cycle: 1:1

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

Area Scan (71x131x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.323 W/kg

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

Reference Value = 18.21 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.367 W/kg

SAR(1 g) = 0.289 W/kg; SAR(10 g) = 0.222 W/kg

Maximum value of SAR (measured) = 0.318 W/kg

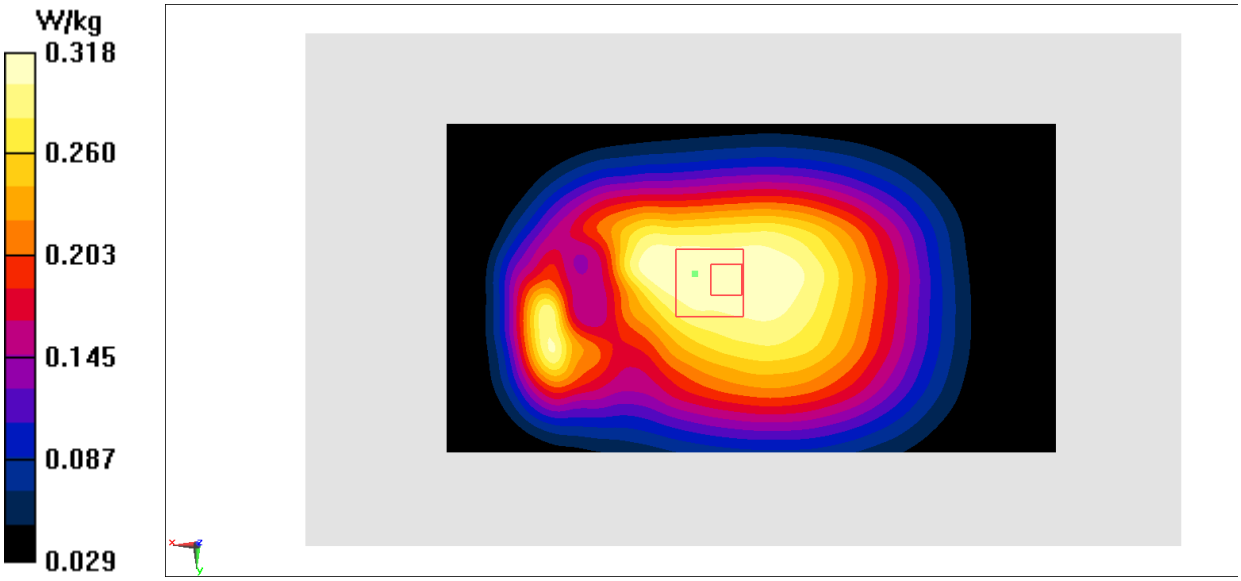

Fig.14 LTE Band5

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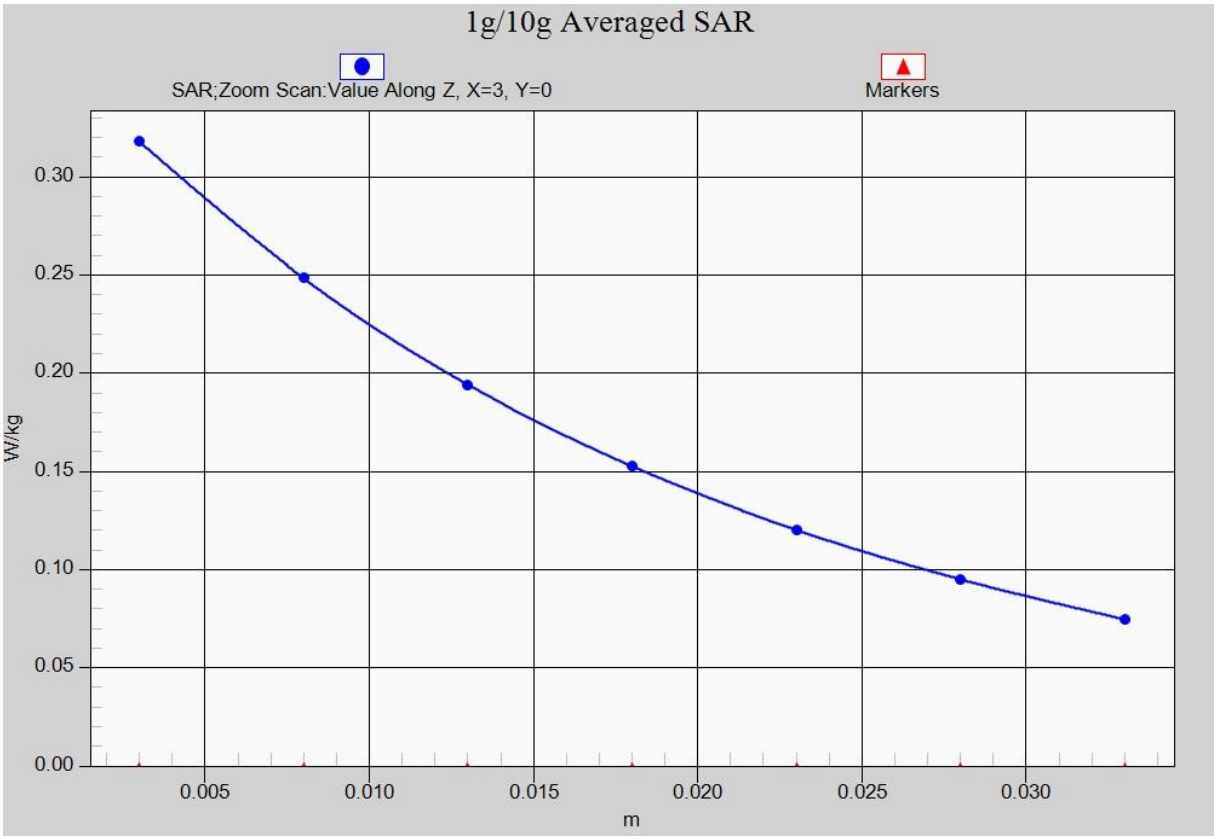

Fig. 14-1 Z-Scan at power reference point (LTE Band5)

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LTE Band7 Left Cheek Middle with QPSK_20M_1RB_High

Date: 2018-5-30
Electronics: DAE4 Sn1525
Medium: Head 2600 MHz
Medium parameters used: f = 2535 MHz; σ = 1.925 mho/m; εr = 38.2; ρ = 1000 kg/m^3
Ambient Temperature: 22.9ºC Liquid Temperature: 22.5ºC
Communication System: LTE Band7Frequency: 2535 MHz Duty Cycle: 1:1
Probe: EX3DV4– SN7464 ConvF(7.76, 7.76, 7.76)

Area Scan (91x151x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.494 W/kg

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

Reference Value = 8.900 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 0.700 W/kg
SAR(1 g) = 0.362 W/kg; SAR(10 g) = 0.188 W/kg
Maximum value of SAR (measured) = 0.454 W/kg

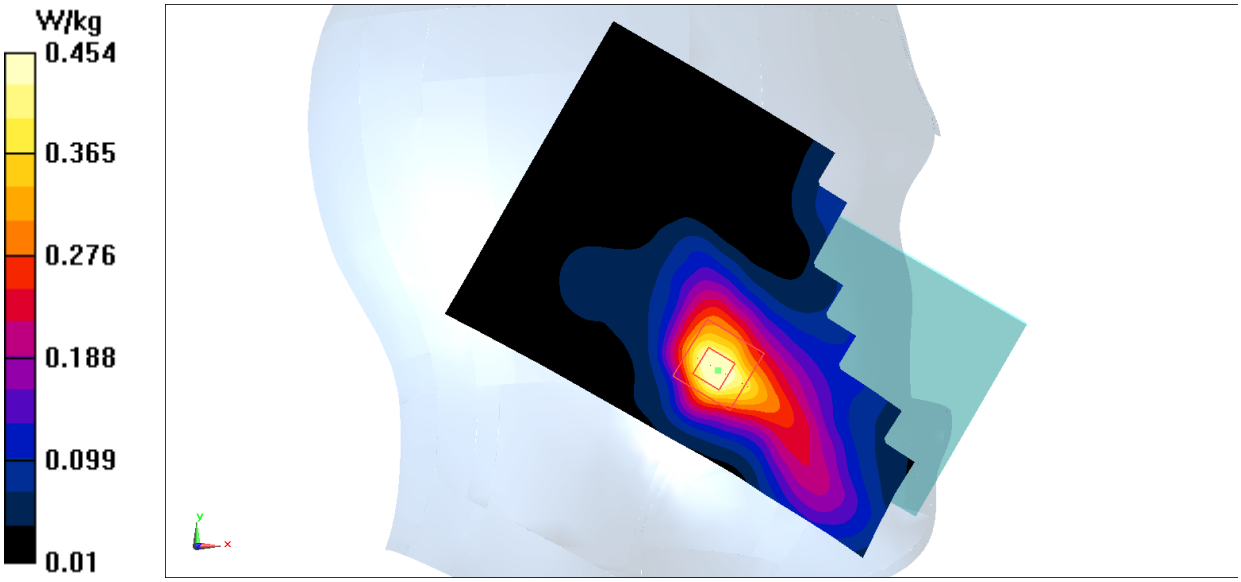

Fig.15 LTE Band7

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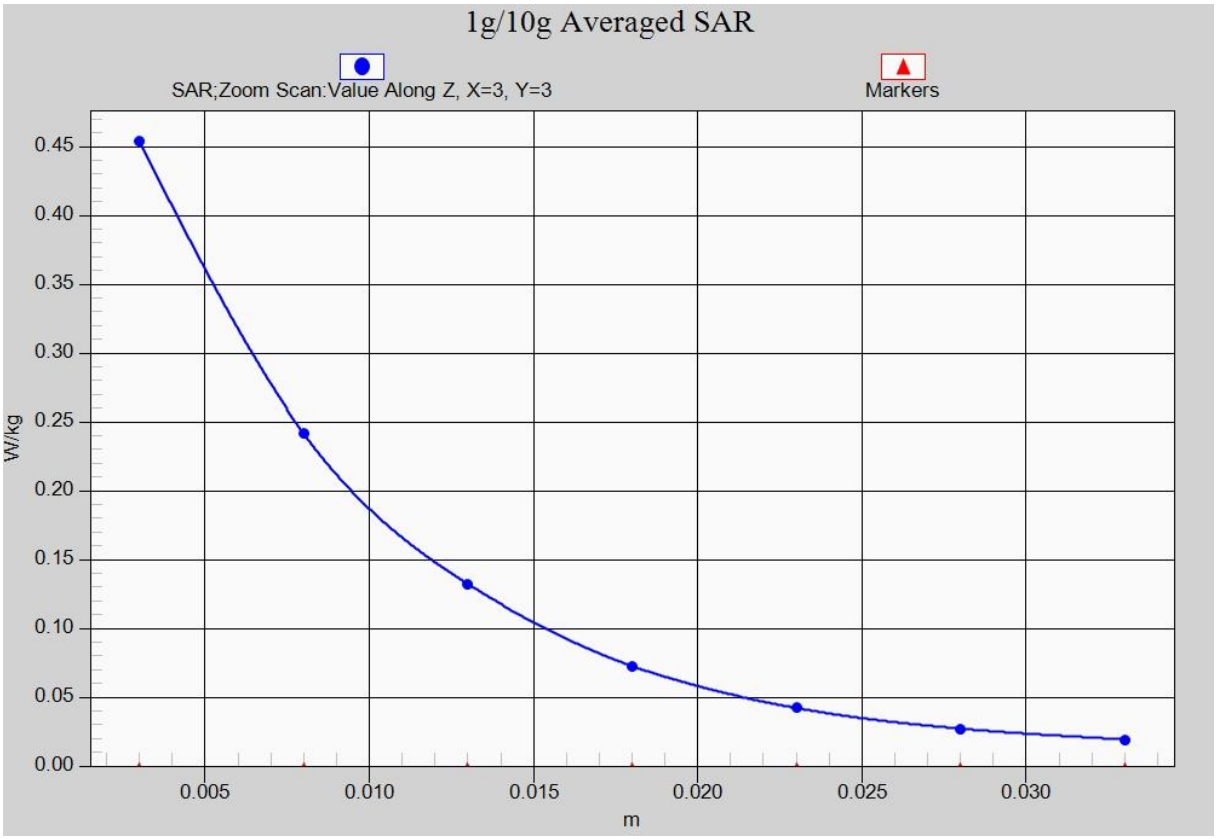

Fig. 15-1 Z-Scan at power reference point (LTE Band7)

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LTE Band7 Body Rear Middle with QPSK_20M_1RB_High

Date: 2018-5-30
Electronics: DAE4 Sn1525
Medium: Body 2600 MHz
Medium parameters used: f = 2535 MHz; σ = 2.212 mho/m; εr = 51.54; ρ = 1000 kg/m^3
Ambient Temperature: 22.9ºC Liquid Temperature: 22.5ºC
Communication System: LTE Band7 Frequency: 2535 MHz Duty Cycle: 1:1
Probe: EX3DV4– SN7464 ConvF(7.84, 7.84, 7.84)

Area Scan (131x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.995 W/kg

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

Reference Value = 7.931 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 1.38 W/kg
SAR(1 g) = 0.808 W/kg; SAR(10 g) = 0.442 W/kg
Maximum value of SAR (measured) = 0.989 W/kg

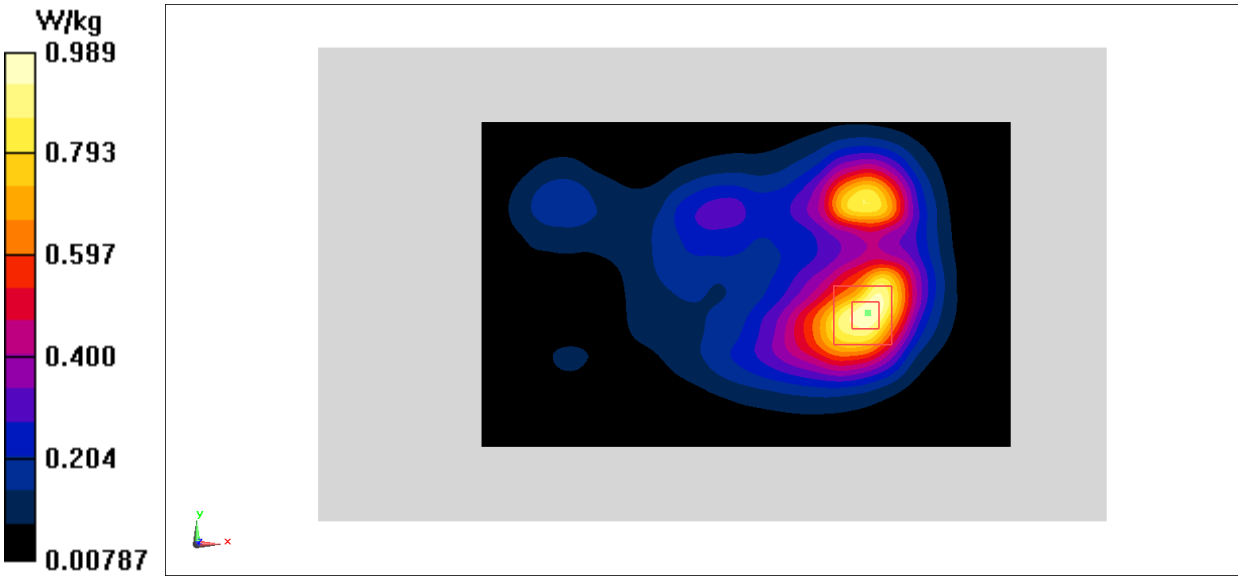

Fig.16 LTE Band7

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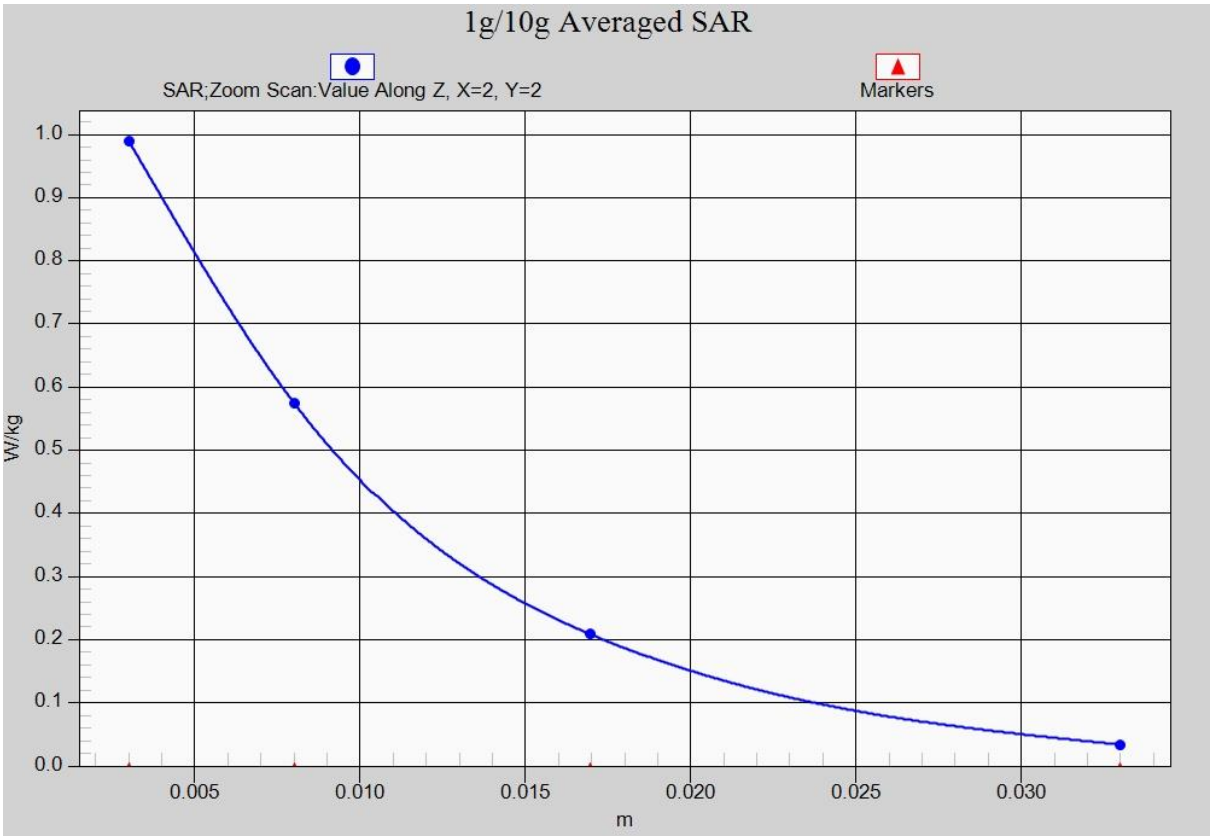

Fig. 16-1 Z-Scan at power reference point (LTE Band7)

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LTE Band12 Right Cheek High with QPSK_10M_1RB_High

Date: 2018-5-29

Electronics: DAE4 Sn1525

Medium: Head 750 MHz

Medium parameters used (interpolated): f = 711 MHz; σ = 0.859 mho/m; εr = 42.63; ρ = 1000 kg/m^3

Ambient Temperature: 22.9ºC Liquid Temperature: 22.5ºC

Communication System: LTE Band12Frequency: 711 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) = 0.147 W/kg

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

Reference Value = 4.452 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.165 W/kg

SAR(1 g) = 0.135 W/kg; SAR(10 g) = 0.105 W/kg

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

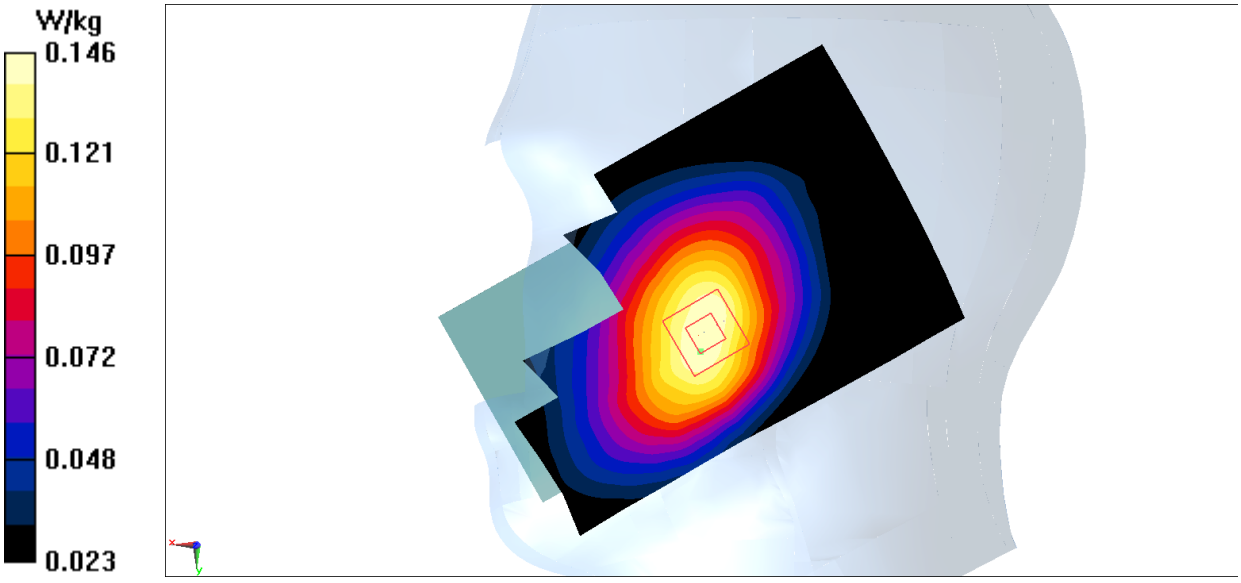

Fig.17 LTE Band12

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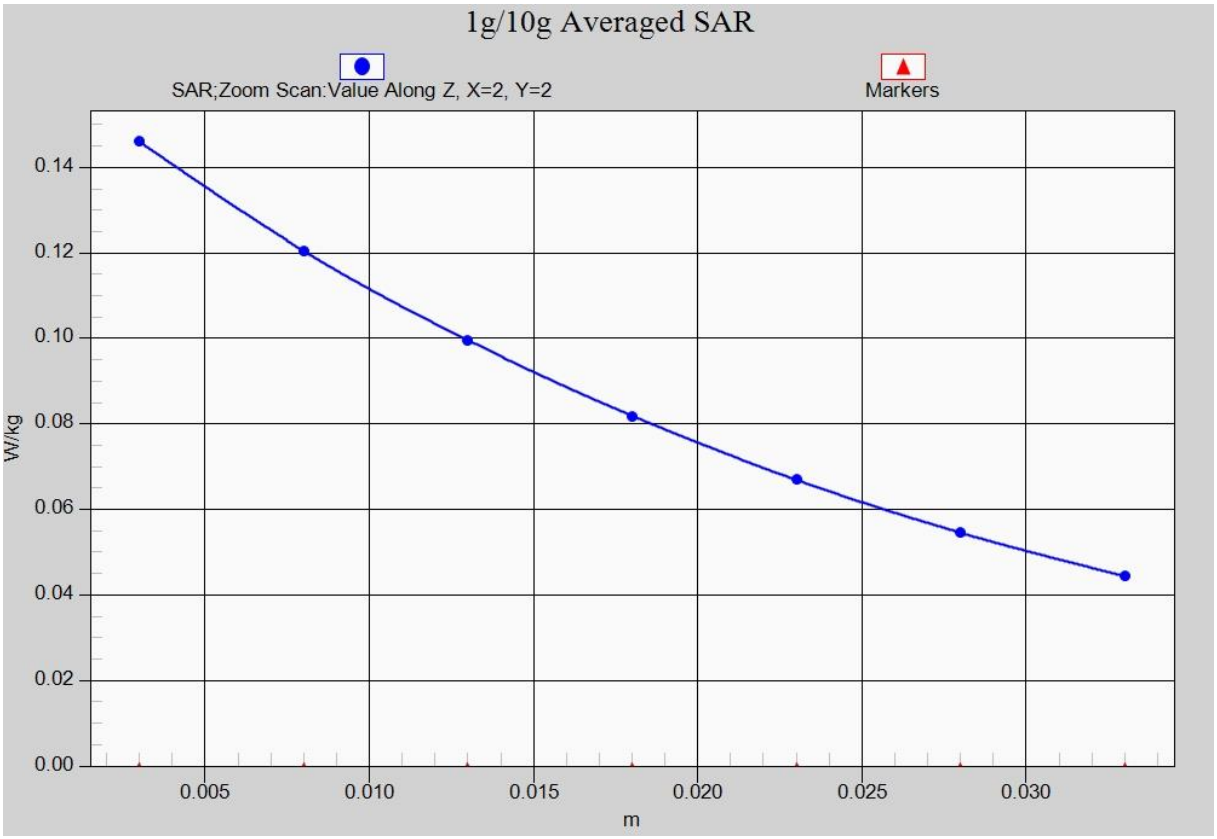

Fig. 17-1 Z-Scan at power reference point (LTE Band12)

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LTE Band12 Body Rear High with QPSK_10M_1RB_High

Date: 2018-5-29

Electronics: DAE4 Sn1525

Medium: Body750 MHz

Medium parameters used (interpolated): f = 711 MHz; σ = 0.944 mho/m; εr = 56.56; ρ = 1000 kg/m^3

Ambient Temperature: 22.9ºC Liquid Temperature: 22.5ºC

Communication System: LTE Band12Frequency: 711 MHz Duty Cycle: 1:1

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

Area Scan (71x131x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.376 W/kg

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

Reference Value = 19.93 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.428 W/kg

SAR(1 g) = 0.346 W/kg; SAR(10 g) = 0.270 W/kg

Maximum value of SAR (measured) = 0.375 W/kg

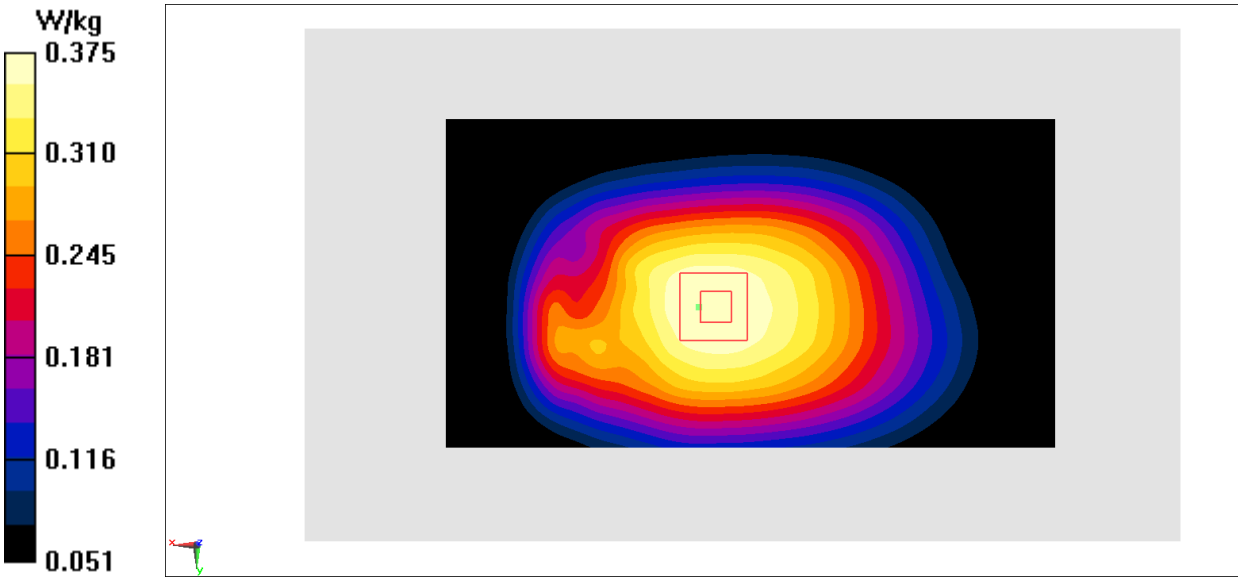

Fig.18 LTE Band12

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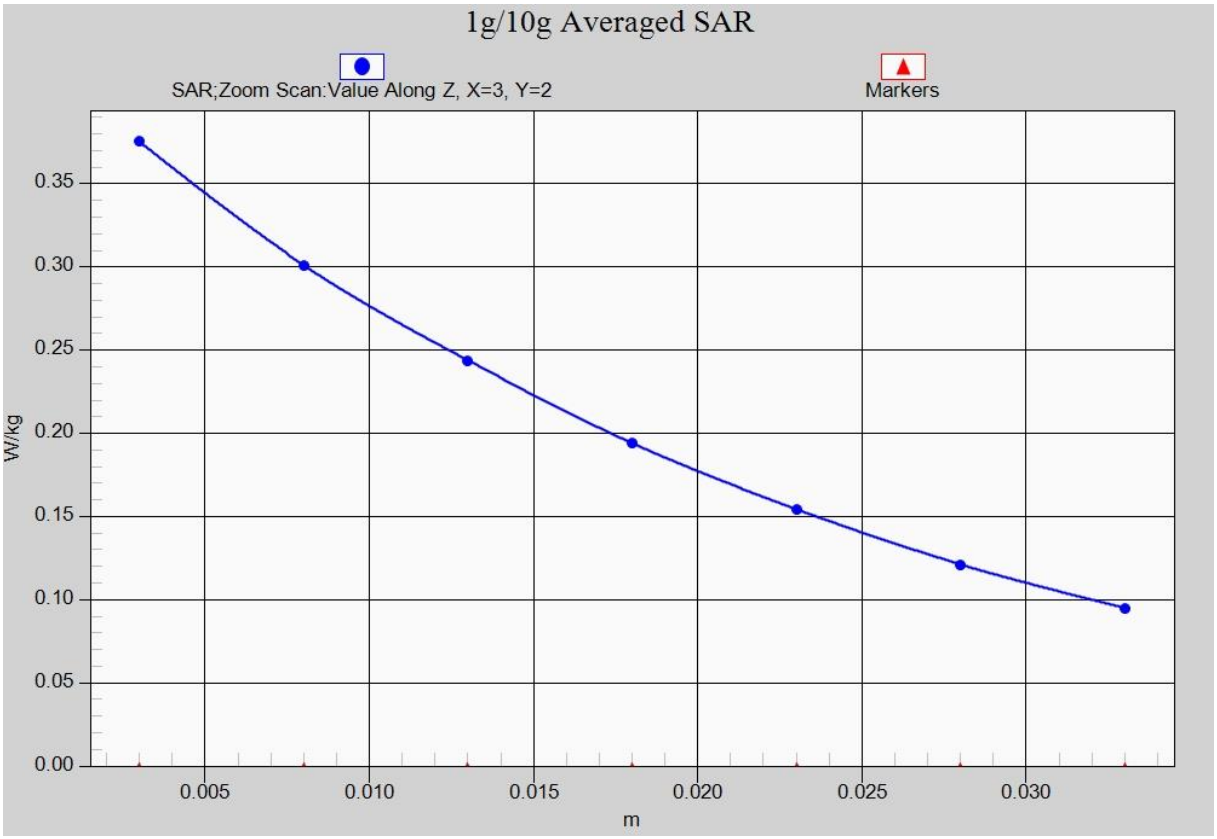

Fig. 18-1 Z-Scan at power reference point (LTE Band12)

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LTE Band13 Right Cheek with QPSK_10M_1RB_Low

Date: 2018-5-29

Electronics: DAE4 Sn1525

Medium: Head 750 MHz

Medium parameters used (interpolated): f = 782 MHz; σ = 0.887 mho/m; εr = 42.48; ρ = 1000 kg/m^3

Ambient Temperature: 22.9ºC Liquid Temperature: 22.5ºC

Communication System: LTE Band13Frequency: 782 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) = 0.150 W/kg

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

Reference Value = 3.856 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.170 W/kg

SAR(1 g) = 0.134 W/kg; SAR(10 g) = 0.103 W/kg

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

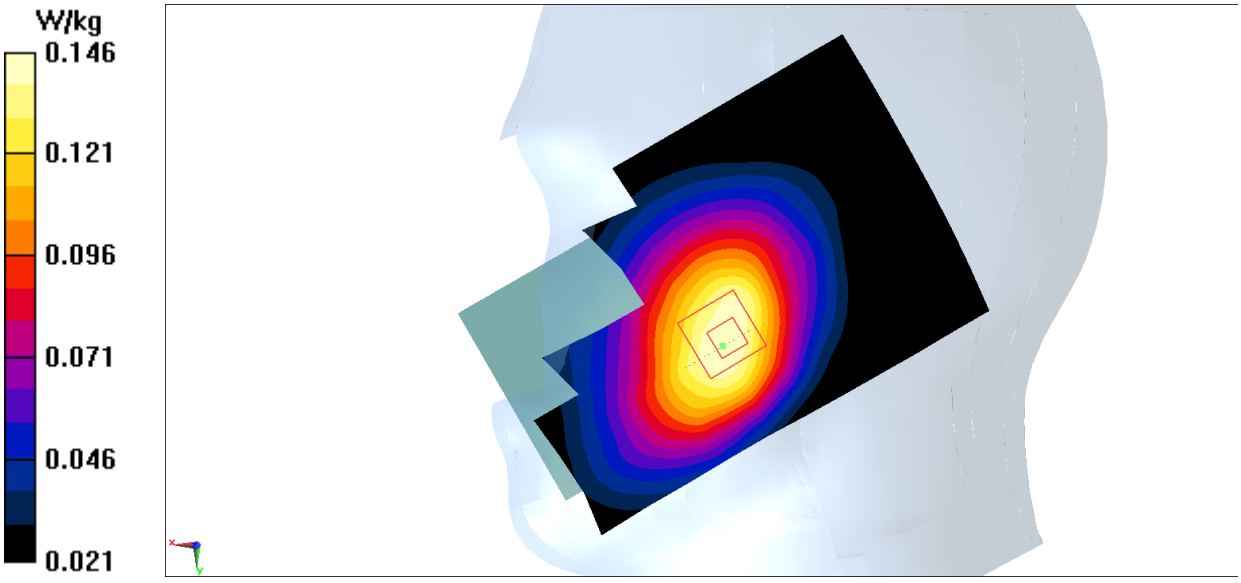

Fig.19 LTE Band13

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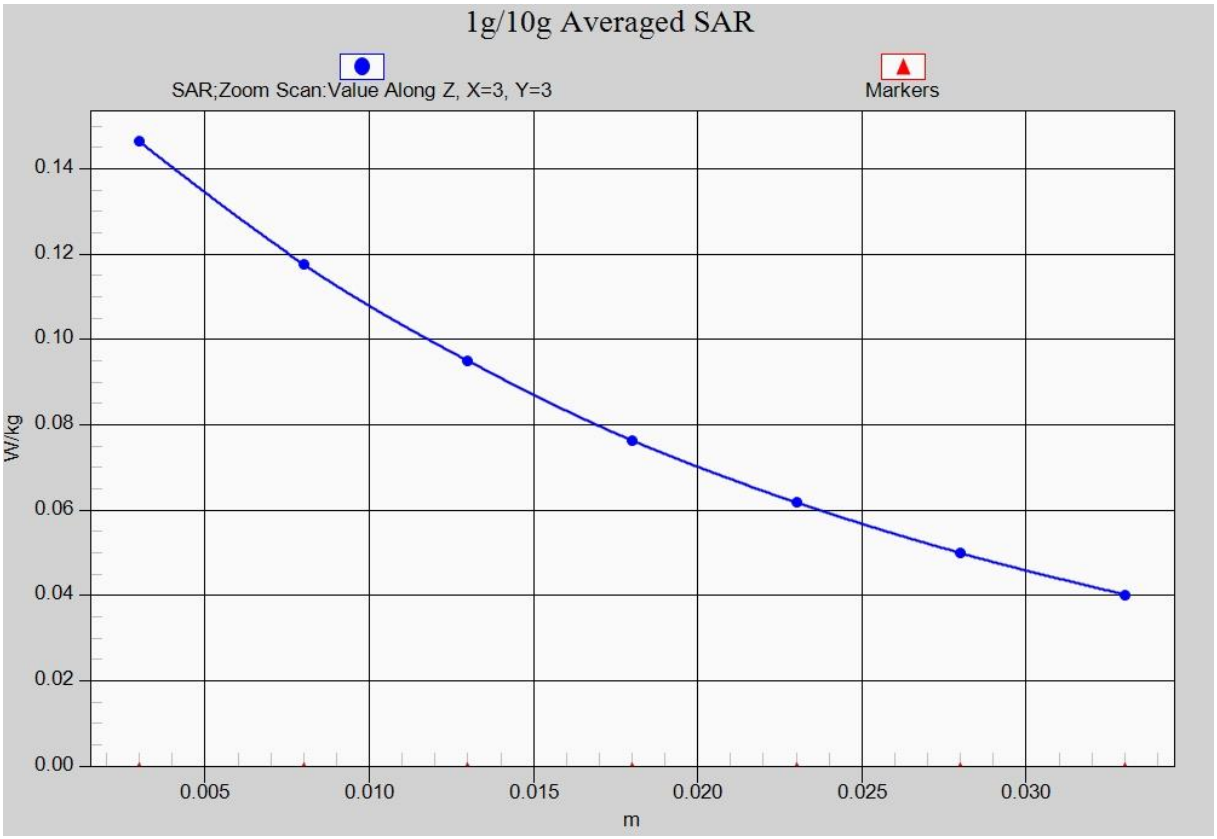

Fig. 19-1 Z-Scan at power reference point (LTE Band13)

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LTE Band13 Body Rear with QPSK_10M_1RB_Low

Date: 2018-5-29

Electronics: DAE4 Sn1525

Medium: Body 750 MHz

Medium parameters used (interpolated): f = 782 MHz; σ = 0.971 mho/m; εr = 56.47; ρ = 1000 kg/m^3

Ambient Temperature: 22.9ºC Liquid Temperature: 22.5ºC

Communication System: LTE Band13Frequency: 782 MHz Duty Cycle: 1:1

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

Area Scan (71x131x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.321 W/kg

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

Reference Value = 17.39 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.537 W/kg

SAR(1 g) = 0.298 W/kg; SAR(10 g) = 0.167 W/kg

Maximum value of SAR (measured) = 0.359 W/kg

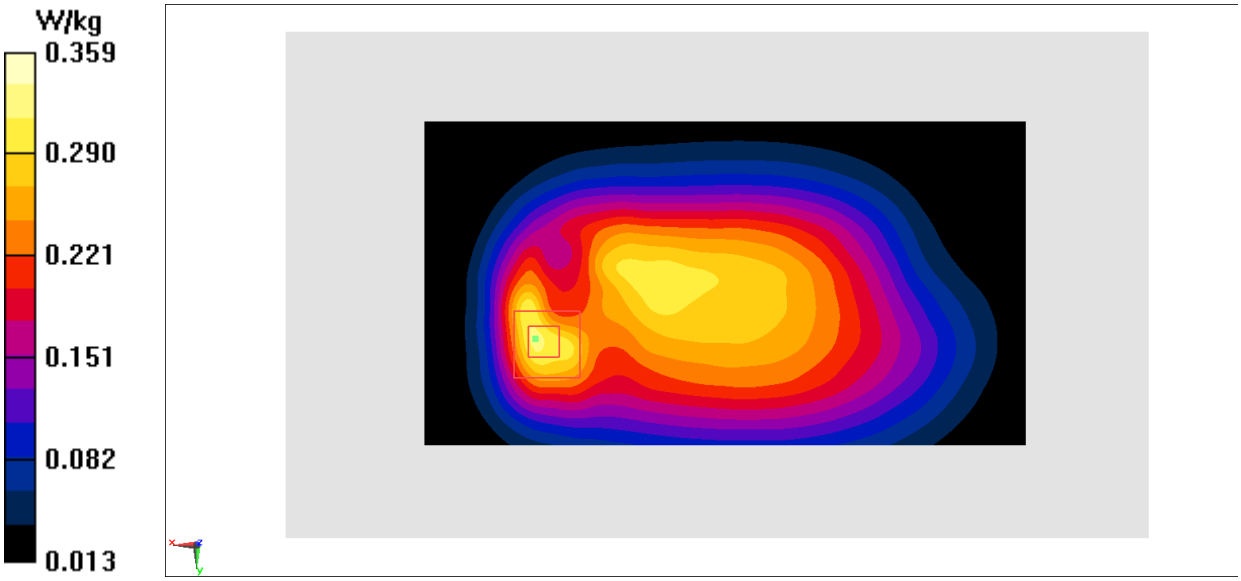

Fig.20 LTE Band13

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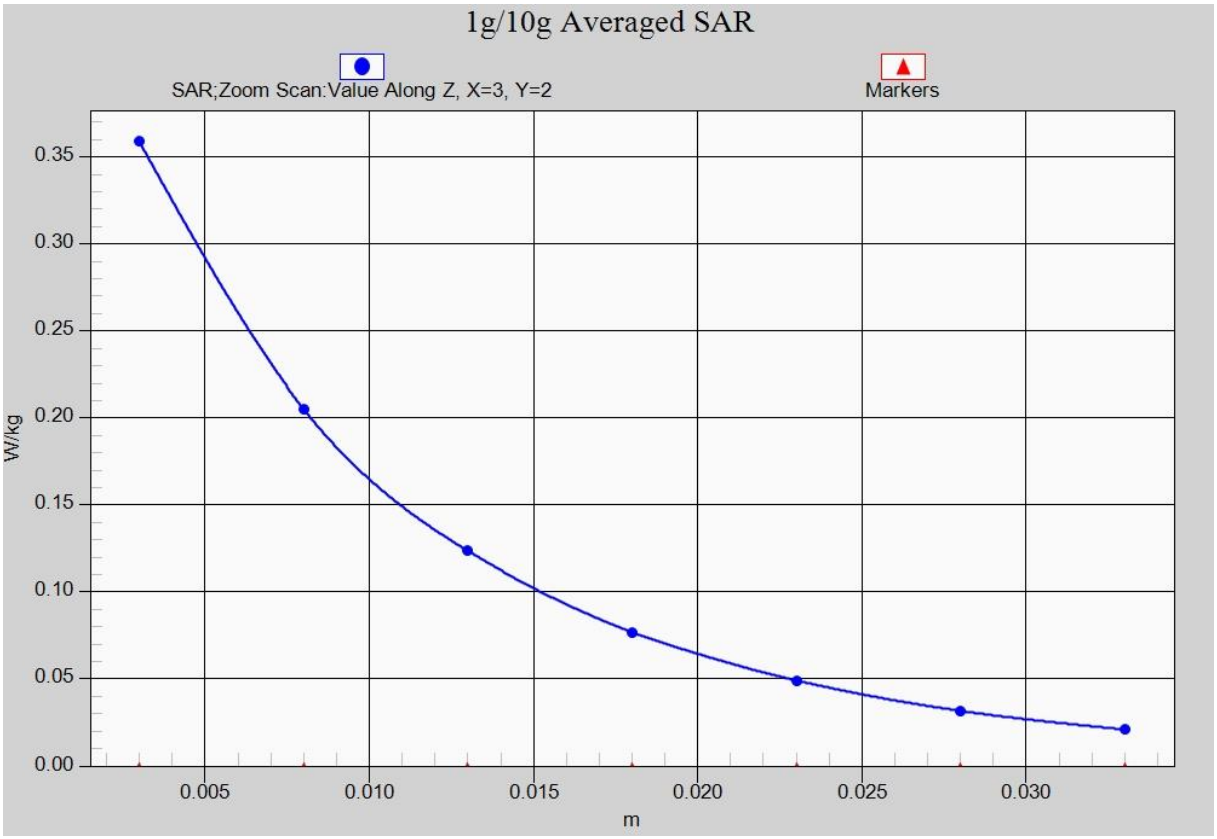

Fig. 20-1 Z-Scan at power reference point (LTE Band13)

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LTE Band 41 Left Cheek with QPSK_20M_1RB_Low

Date: 2018-5-30
Electronics: DAE4 Sn1525
Medium: Head 2600 MHz
Medium parameters used: f = 2680 MHz; σ = 2.008 mho/m; εr = 38.98; ρ = 1000 kg/m^3
Ambient Temperature: 22.9ºC Liquid Temperature: 22.5ºC
Communication System: LTE Band41 Frequency: 2680 MHz Duty Cycle: 1:1.58
Probe: EX3DV4 - SN7464 ConvF(7.76, 7.76, 7.76)

Area Scan (91x151x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.208 W/kg

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

Reference Value = 9.173 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.318 W/kg
SAR(1 g) = 0.155 W/kg; SAR(10 g) = 0.077 W/kg
Maximum value of SAR (measured) = 0.199 W/kg

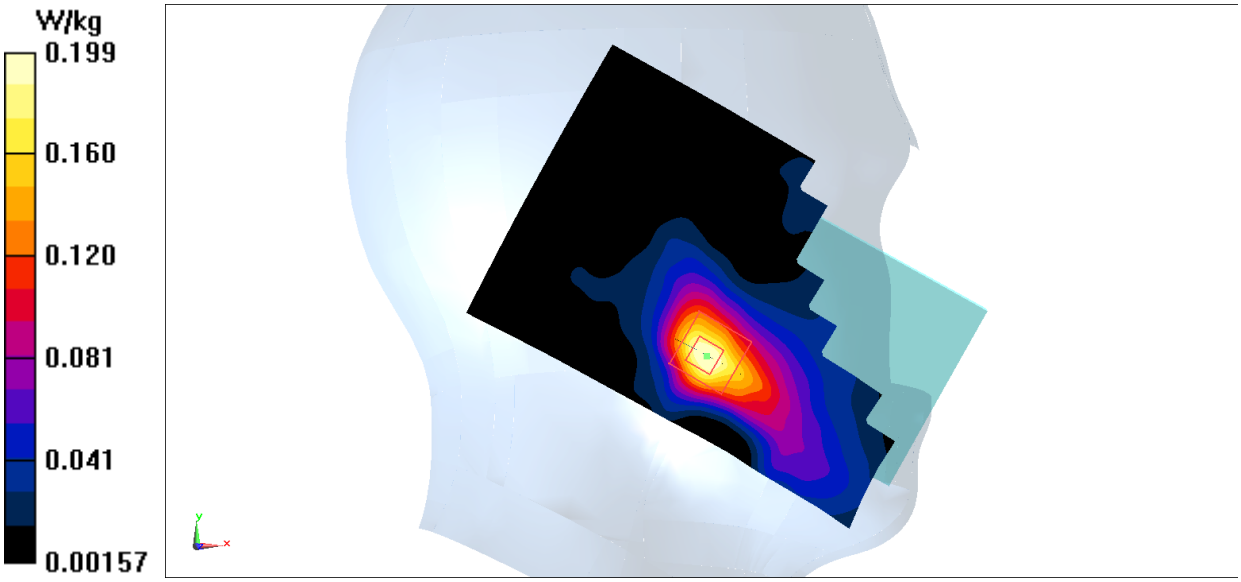

Fig.21 LTE Band 41

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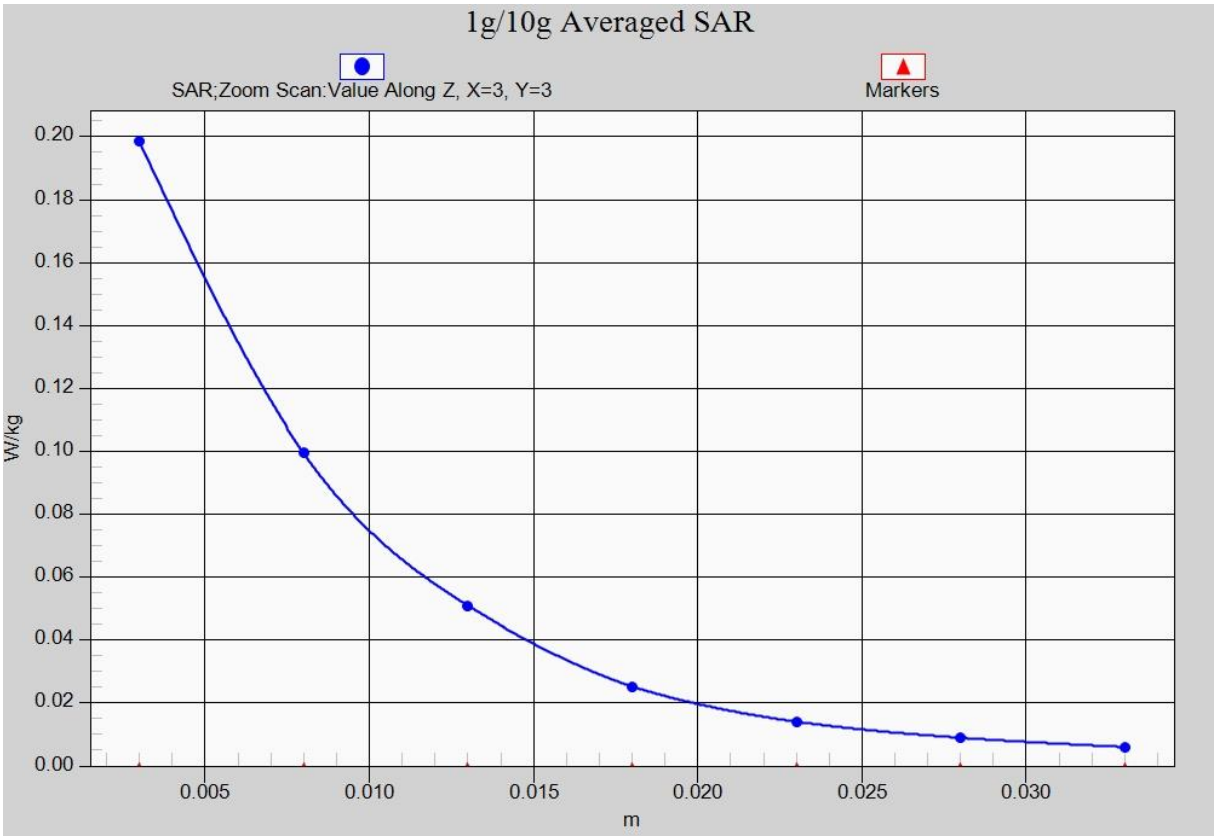

Fig. 21-1 Z-Scan at power reference point (LTE Band 41)

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LTE Band 41 Body Bottom with QPSK_20M_1RB_Low

Date: 2018-5-30
Electronics: DAE4 Sn1525
Medium: Body 2600 MHz
Medium parameters use: f = 2680 MHz; σ = 2.306 mho/m; εr = 51.329; ρ = 1000 kg/m^3
Ambient Temperature: 22.9ºC Liquid Temperature: 22.5ºC
Communication System: LTE Band41 Frequency: 2680 MHz Duty Cycle: 1:1.58
Probe: EX3DV4 - SN7464 ConvF(7.84, 7.84, 7.84)

Area Scan (91x31x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.438 W/kg

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

Reference Value = 7.208 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 0.639 W/kg
SAR(1 g) = 0.333 W/kg; SAR(10 g) = 0.163 W/kg
Maximum value of SAR (measured) = 0.432 W/kg

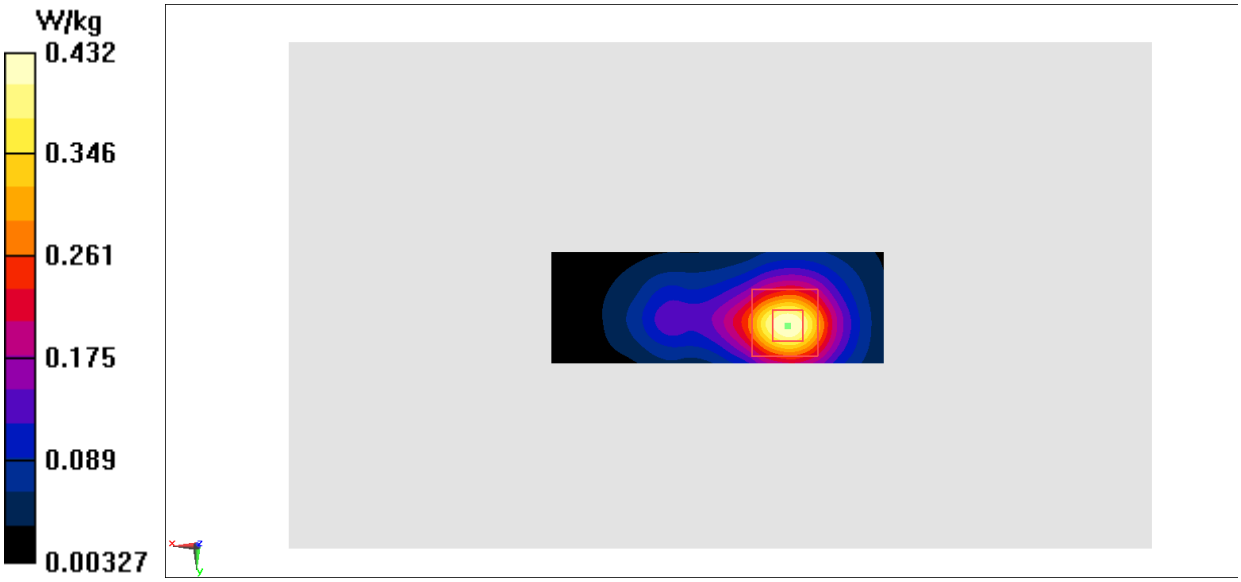

Fig.22 LTE Band 41

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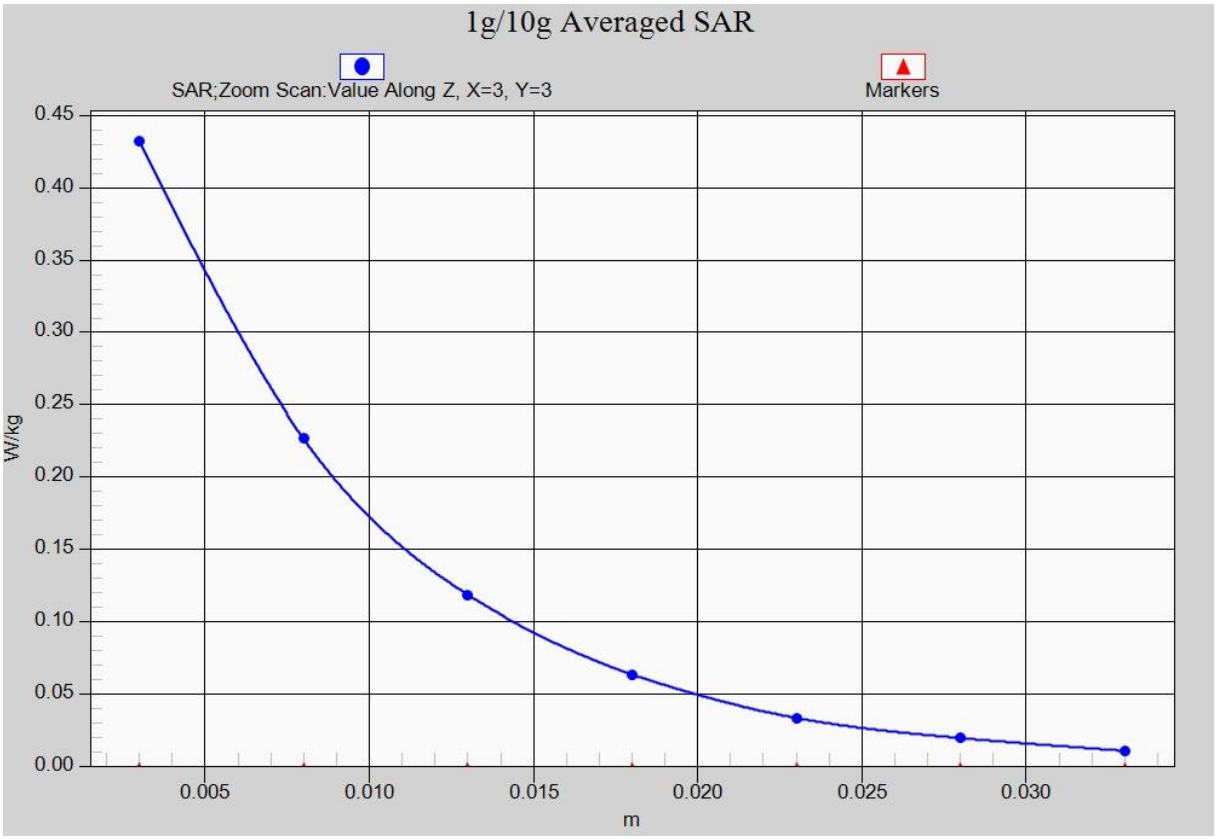

Fig. 22-1 Z-Scan at power reference point (LTE Band 41)

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LTE Band66 Right Cheek Low with QPSK_20M_1RB_Middle

Date: 2018-5-29
Electronics: DAE4 Sn1525
Medium: Head 1750 MHz
Medium parameters used f = 1720 MHz; σ = 1.378 mho/m; εr = 40.715; ρ = 1000 kg/m^3
Ambient Temperature: 22.9ºC Liquid Temperature: 22.5ºC
Communication System: LTE Band66 Frequency: 1720 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) = 0.266 W/kg

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

Reference Value = 5.709 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.320 W/kg
SAR(1 g) = 0.214 W/kg; SAR(10 g) = 0.134 W/kg
Maximum value of SAR (measured) = 0.252 W/kg

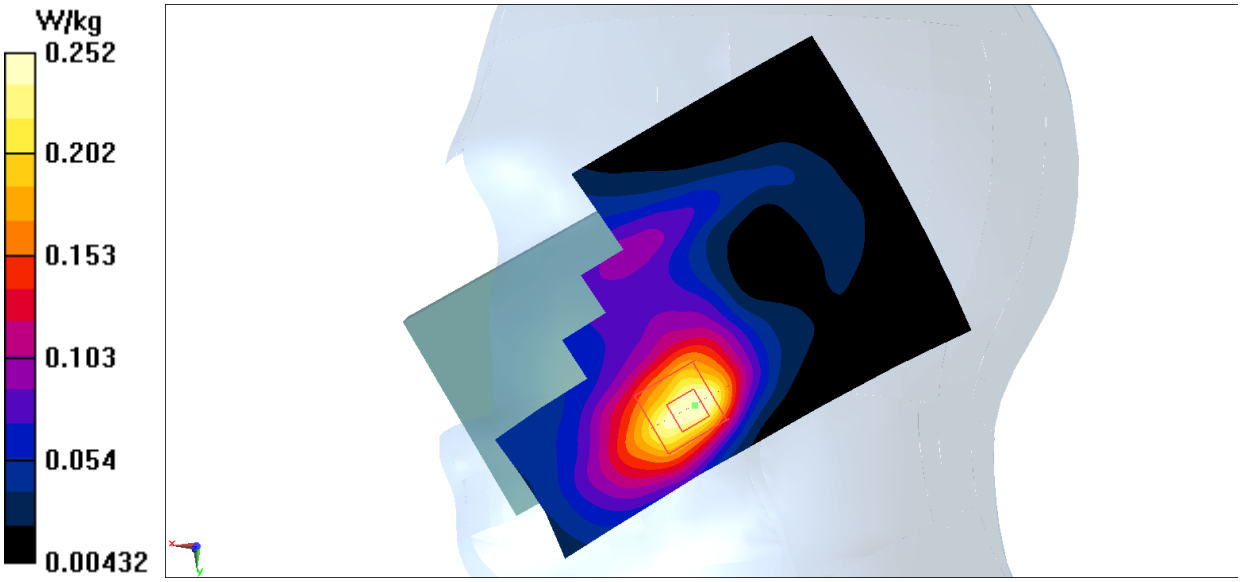

Fig.23 LTE Band66

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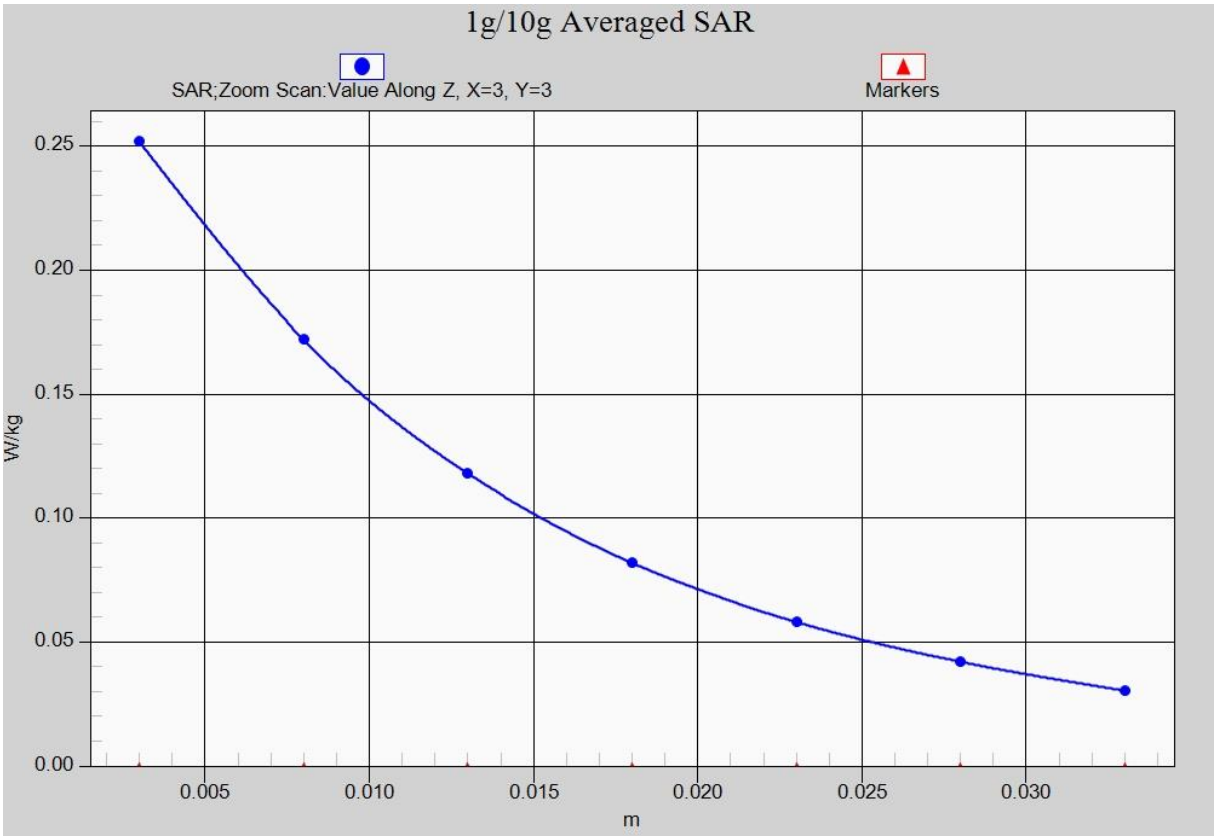

Fig. 23-1 Z-Scan at power reference point (LTE Band66)

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LTE Band66 Body Rear Low with QPSK_20M_1RB_Middle

Date: 2018-5-29
Electronics: DAE4 Sn1525
Medium: Body 1750 MHz
Medium parameters used: f = 1720 MHz; σ =1.524 mho/m; εr = 53.504; ρ = 1000 kg/m^3
Ambient Temperature: 22.9ºC Liquid Temperature: 22.5ºC
Communication System: LTE Band66 Frequency: 1720 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(8.60, 8.60, 8.60)

Area Scan (131x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

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

Reference Value = 8.629 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 1.64 W/kg
SAR(1 g) = 0.926 W/kg; SAR(10 g) = 0.496 W/kg
Maximum value of SAR (measured) = 1.16 W/kg

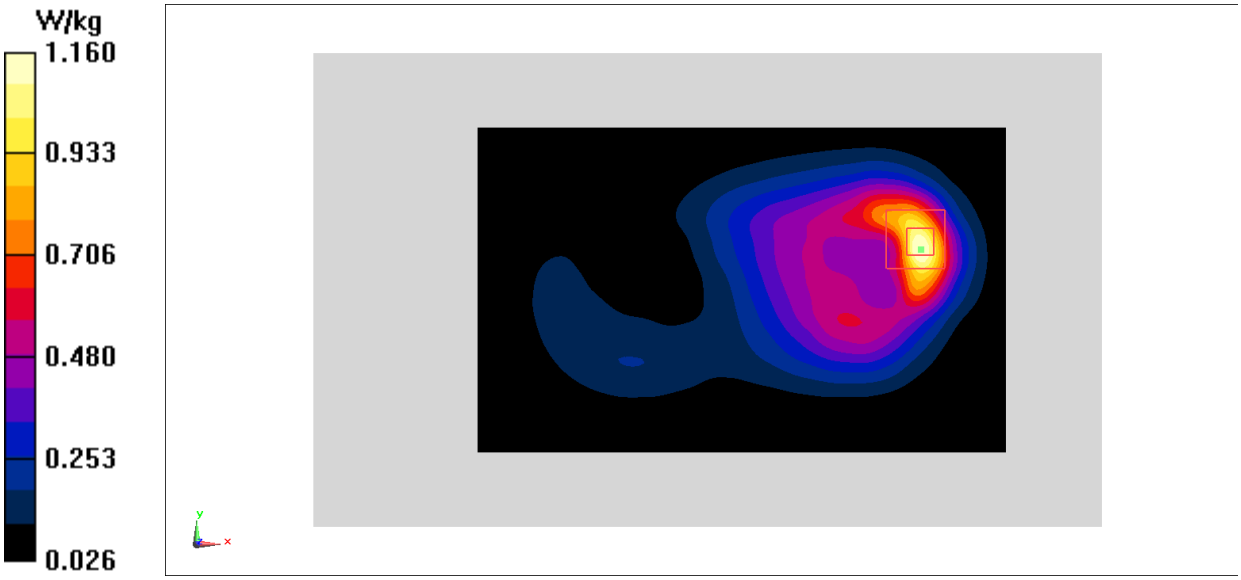

Fig.24 LTE Band66

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