

APPENDIX 2 : SAR Measurement data

1. Evaluation procedure

The evaluation was performed with the following procedure:

Step 1: Measurement of the E-field at a fixed location above the ear point or central position of flat phantom was used as a reference value for assessing the power drop.

Step 2: The SAR distribution at the exposed side of head or body position was measured at a distance of each device from the inner surface of the shell. The area covered the entire dimension of the antenna of EUT and the horizontal grid spacing was 15 mm x 15 mm . Based on these data, the area of the maximum absorption was determined by spline interpolation.

Step 3: Around this point found in the Step 2 (area scan), a volume of 28mm x 28mm x 22.5mm was assessed by measuring 8 x 8 x 10 points for IEEE802.11a/n(5G) and for any secondary peaks found in the Step2 which are within 2dB of maximum peak (level more than ambient noise (≥ 0.012 W/kg)) and not with this Step3 (Zoom scan) is repeated. On the basis of this data set, the spatial peak SAR value was evaluated under the following procedure:

(1). The data at the surface were extrapolated, since the center of the dipoles is 1mm away from the tip of the probe and the distance between the surface and the lowest measuring point is 1.3 mm. Therefore minimum distance of probe sensor from surface was set to the 2mm.

The extrapolation was based on a least square algorithm [4]. A polynomial of the fourth order was calculated through the points in z-axes.

This polynomial was then used to evaluate the points between the surface and the probe tip.

(2). The maximum interpolated value was searched with a straightforward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1 g or 10 g) were computed by the 3D-Spline interpolation algorithm. The 3D-Spline is composed of three one-dimensional splines with the "Not a knot"-condition (in x, y and z-directions) [4], [5]. The volume was integrated with the trapezoidal-algorithm. One thousand points (10 x 10 x 10) were interpolated to calculate the average.

(3). All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.

Step 4: Re-measurement of the E-field at the same location as in Step 1.

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2. Measurement data (Low/Middle band(5180-5320MHz), ant 0)

DY-WL10/ ant 0/ Horizontal-Front/ Default radiation/ 11a BPSK/ 5240MHz

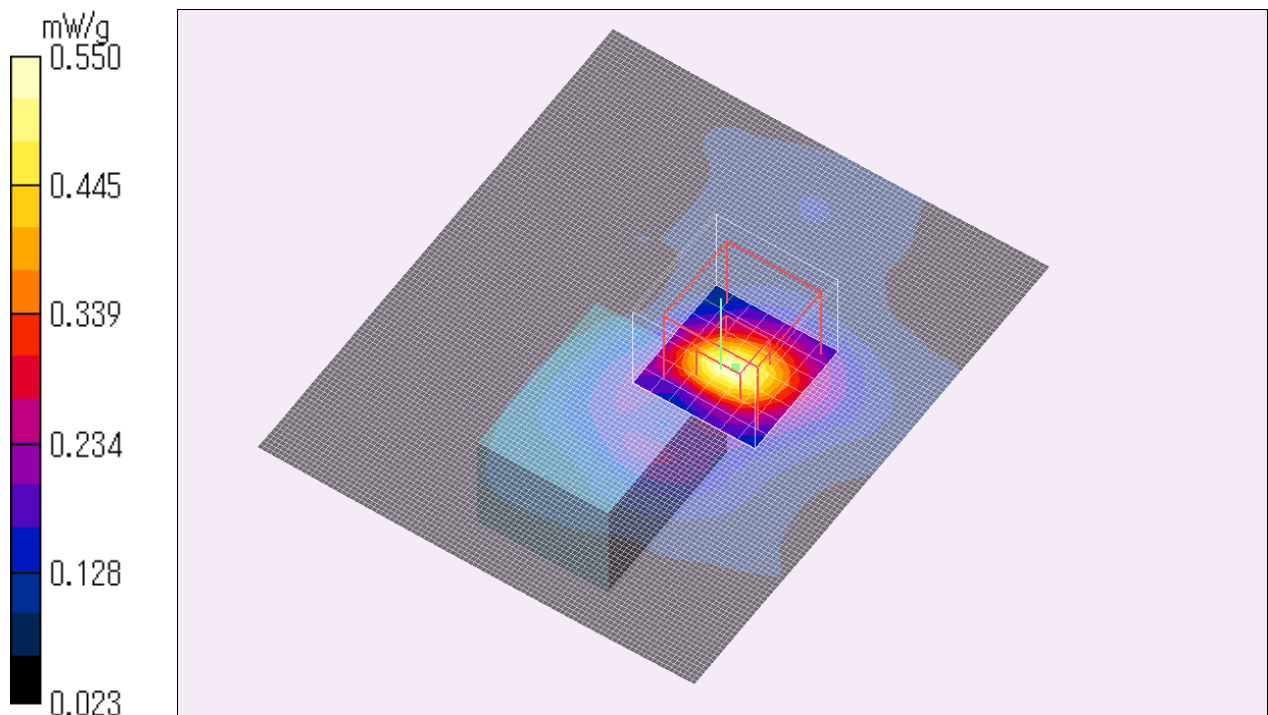
Crest factor: 1
Medium: M5200 Medium parameters used: $f = 5200$ MHz; $\sigma = 5.56$ mho/m; $\epsilon_r = 45.9$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3507; ConvF(4.58, 4.58, 4.58); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (101x121x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.509 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 8.78 V/m; Power Drift = 0.061 dB
Peak SAR (extrapolated) = 0.957 W/kg

SAR(1 g) = 0.312 mW/g; SAR(10 g) = 0.132 mW/g
Maximum value of SAR (measured) = 0.550 mW/g

Test Date = 10/23/09
Ambient Temperature = 24.5 degree.c
Liquid Temperature = Before 23.6 degree.C , After 23.6 degree.C



DY-WL10/ ant 0/ Horizontal-Front/ Front radiation/ 11a BPSK/ 5240MHz

Crest factor: 1

Medium: M5200 Medium parameters used: $f = 5200$ MHz; $\sigma = 5.56$ mho/m; $\epsilon_r = 45.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.58, 4.58, 4.58); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (101x121x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.715 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 12.3 V/m; Power Drift = -0.108 dB

Peak SAR (extrapolated) = 1.20 W/kg

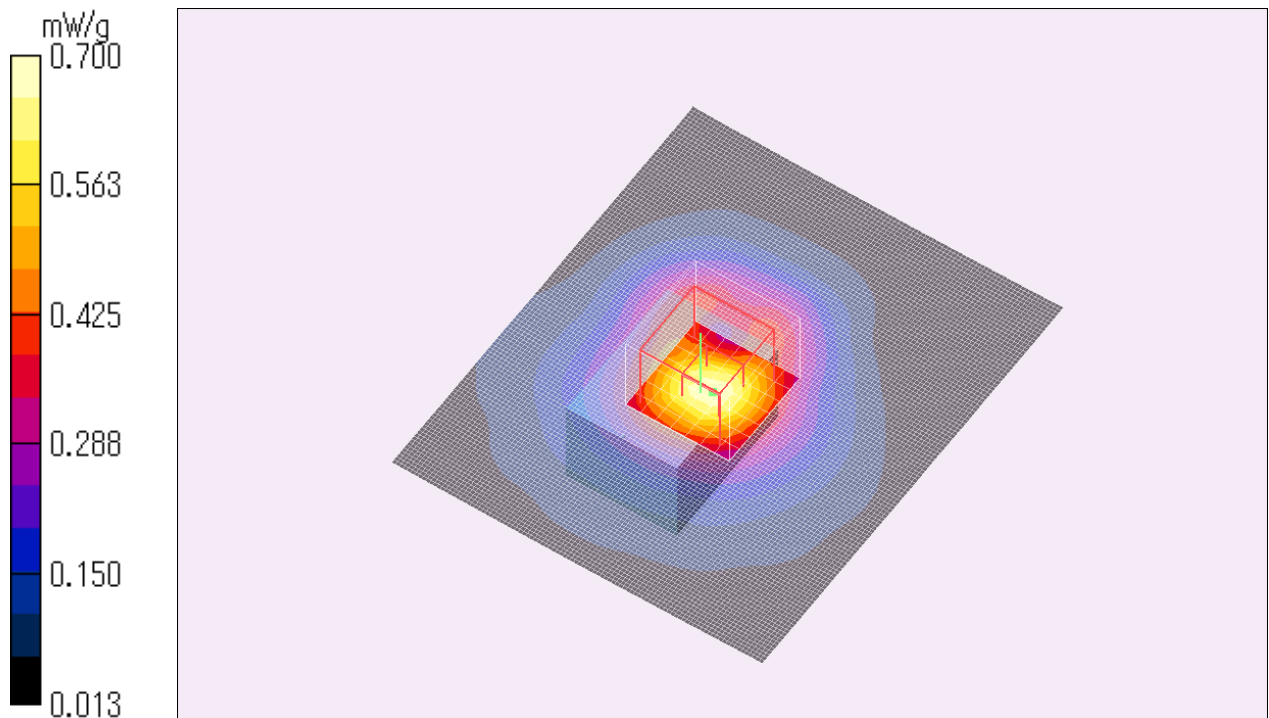
SAR(1 g) = 0.404 mW/g; SAR(10 g) = 0.177 mW/g

Maximum value of SAR (measured) = 0.700 mW/g

Test Date = 10/23/09

Ambient Temperature = 24.5 degree.c

Liquid Temperature = Before 23.6 degree.C , After 23.6 degree.C



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DY-WL10/ ant 0/ Horizontal-Front/ Rear radiation/ 11a BPSK/ 5240MHz

Crest factor: 1

Medium: M5200 Medium parameters used: $f = 5200$ MHz; $\sigma = 5.58$ mho/m; $\epsilon_r = 45.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.58, 4.58, 4.58); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (101x121x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.560 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 6.07 V/m; Power Drift = 0.176 dB

Peak SAR (extrapolated) = 0.954 W/kg

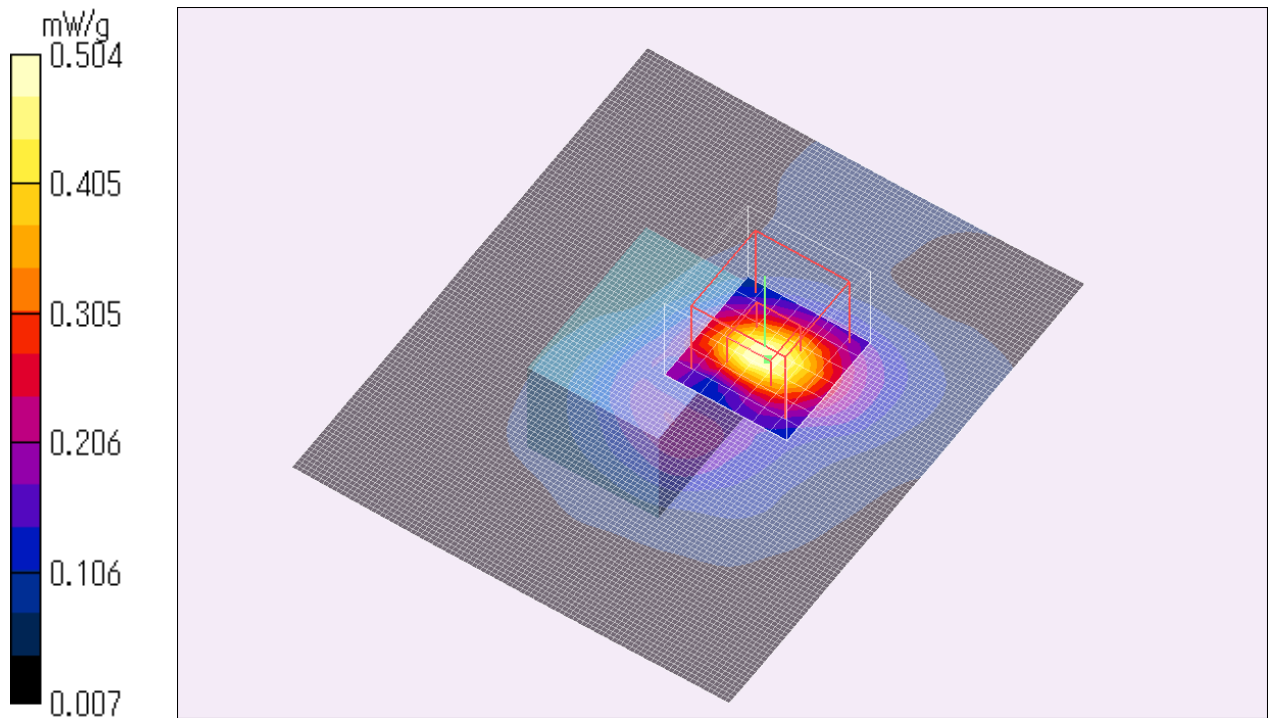
SAR(1 g) = 0.279 mW/g; SAR(10 g) = 0.105 mW/g

Maximum value of SAR (measured) = 0.504 mW/g

Test Date = 11/05/09

Ambient Temperature = 24.5 degree.c

Liquid Temperature = Before 23.8 degree.C , After 23.8 degree.C



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DY-WL10/ ant 0/ Horizontal-Front/ Front+Rear radiation/ 11a BPSK/ 5240MHz

Crest factor: 1

Medium: M5200 Medium parameters used: $f = 5200$ MHz; $\sigma = 5.58$ mho/m; $\epsilon_r = 45.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.58, 4.58, 4.58); Calibrated: 2009/02/12

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: Flat Phantom ELI4.0

- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (101x121x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.567 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 8.93 V/m; Power Drift = 0.108 dB

Peak SAR (extrapolated) = 1.07 W/kg

SAR(1 g) = 0.341 mW/g; SAR(10 g) = 0.148 mW/g

Maximum value of SAR (measured) = 0.602 mW/g

Zoom Scan 2 (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 8.93 V/m; Power Drift = 0.108 dB

Peak SAR (extrapolated) = 1.06 W/kg

SAR(1 g) = 0.325 mW/g; SAR(10 g) = 0.144 mW/g

Maximum value of SAR (measured) = 0.586 mW/g

Zoom Scan 3 (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 8.93 V/m; Power Drift = 0.108 dB

Peak SAR (extrapolated) = 1.05 W/kg

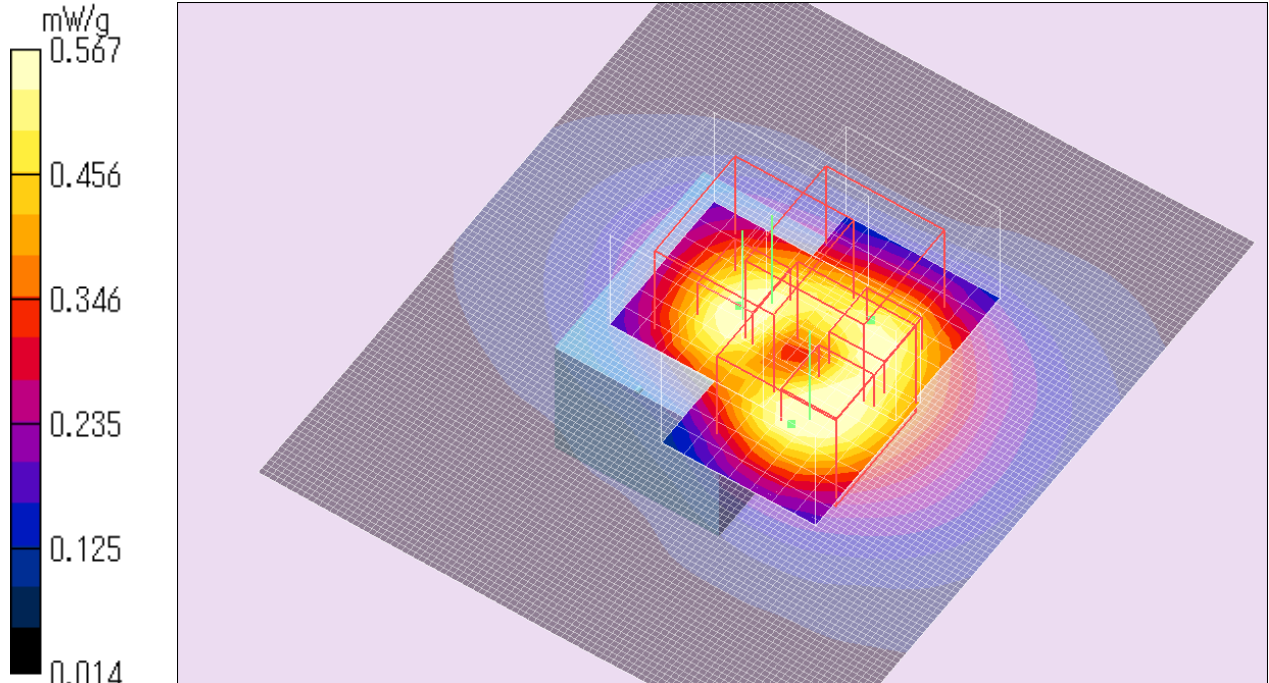
SAR(1 g) = 0.320 mW/g; SAR(10 g) = 0.143 mW/g

Maximum value of SAR (measured) = 0.567 mW/g

Test Date = 11/05/09

Ambient Temperature = 24.5 degree.c

Liquid Temperature = Before 23.8 degree.C , After 23.8 degree.C



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DY-WL10/ ant 0/ Horizontal-Rear/ Default radiation/ 11a BPSK/ 5240MHz

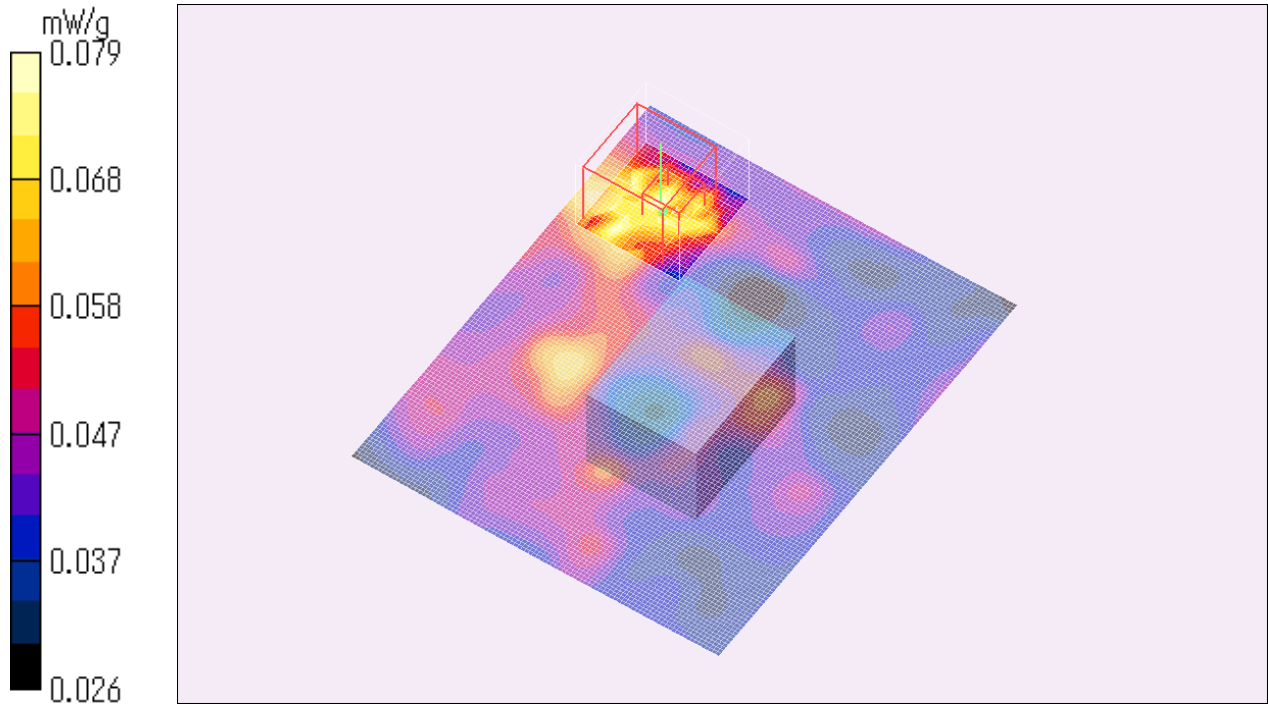
Crest factor: 1
Medium: M5200 Medium parameters used: $f = 5200$ MHz; $\sigma = 5.56$ mho/m; $\epsilon_r = 45.9$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3507; ConvF(4.58, 4.58, 4.58); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (101x121x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.079 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 2.72 V/m; Power Drift = 0.118 dB
Peak SAR (extrapolated) = 0.104 W/kg

SAR(1 g) = 0.061 mW/g; SAR(10 g) = 0.052 mW/g
Maximum value of SAR (measured) = 0.079 mW/g

Test Date = 10/23/09
Ambient Temperature = 24.5 degree.c
Liquid Temperature = Before 23.6 degree.C , After 23.6 degree.C



DY-WL10/ ant 0/ Vertical-Right side/ Default radiation/ 11a BPSK/ 5240MHz

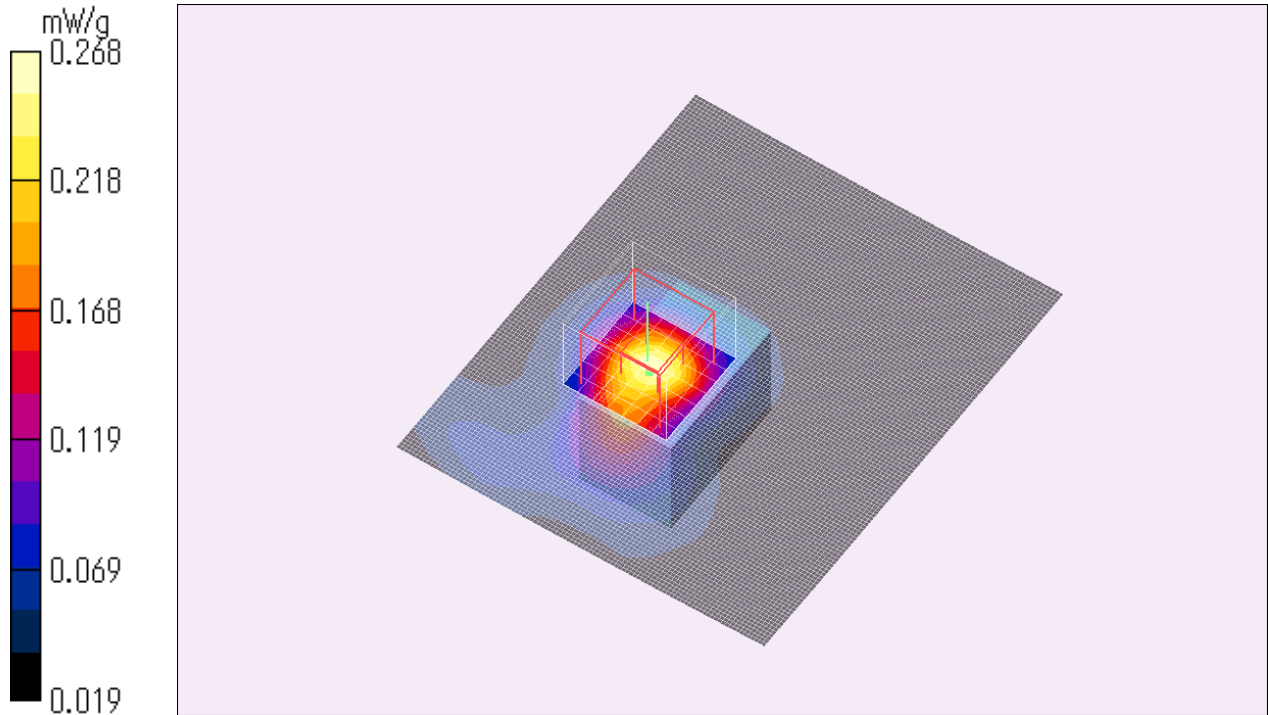
Crest factor: 1
Medium: M5200 Medium parameters used: $f = 5200$ MHz; $\sigma = 5.56$ mho/m; $\epsilon_r = 45.9$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3507; ConvF(4.58, 4.58, 4.58); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (101x121x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.277 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 2.61 V/m; Power Drift = -0.095 dB
Peak SAR (extrapolated) = 0.473 W/kg

SAR(1 g) = 0.156 mW/g; SAR(10 g) = 0.074 mW/g
Maximum value of SAR (measured) = 0.268 mW/g

Test Date = 10/23/09
Ambient Temperature = 24.5 degree.c
Liquid Temperature = Before 23.7 degree.C , After 23.7 degree.C



DY-WL10/ ant 0/ Vertical-Right side/ Front radiation/ 11a BPSK/ 5240MHz

Crest factor: 1

Medium: M5200 Medium parameters used: $f = 5200$ MHz; $\sigma = 5.56$ mho/m; $\epsilon_r = 45.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.58, 4.58, 4.58); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (101x121x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.285 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 2.52 V/m; Power Drift = 0.015 dB

Peak SAR (extrapolated) = 0.458 W/kg

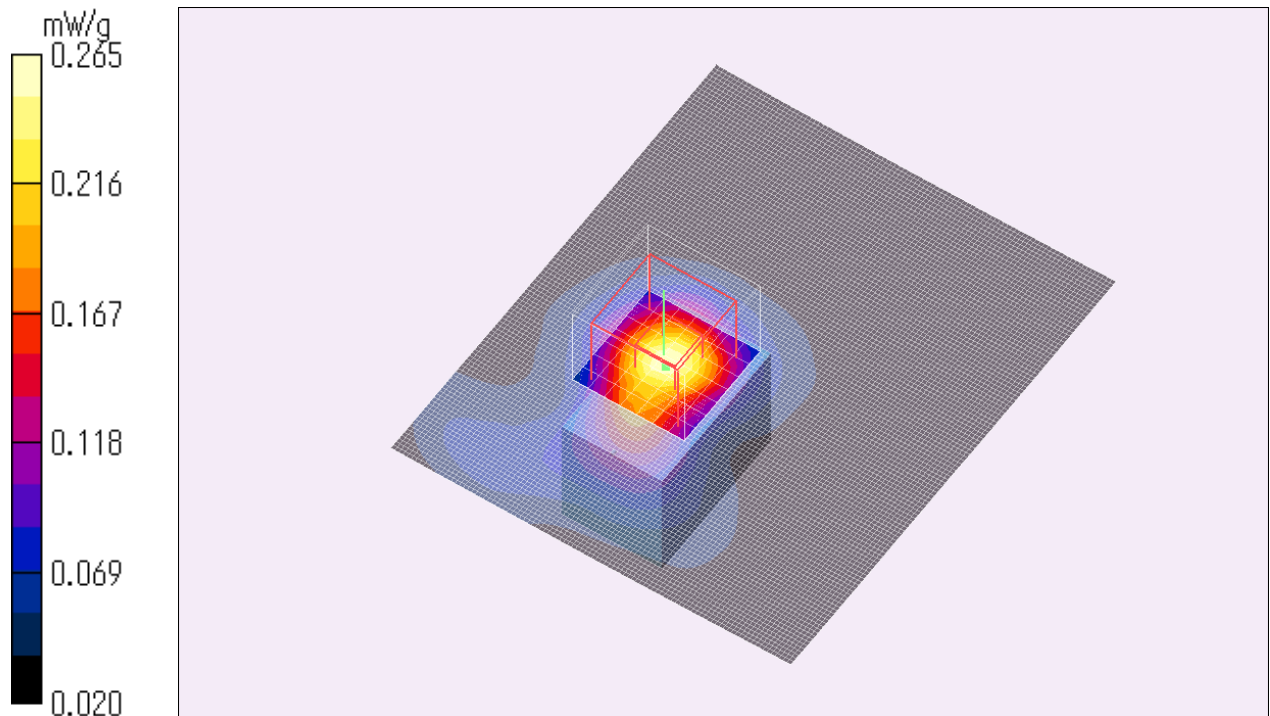
SAR(1 g) = 0.155 mW/g; SAR(10 g) = 0.074 mW/g

Maximum value of SAR (measured) = 0.265 mW/g

Test Date = 10/23/09

Ambient Temperature = 24.5 degree.c

Liquid Temperature = Before 23.7 degree.C , After 23.7 degree.C



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DY-WL10/ ant 0/ Vertical-Right side/ Rear radiation / 11a BPSK/ 5240MHz

Crest factor: 1

Medium: M5200 Medium parameters used: $f = 5200$ MHz; $\sigma = 5.58$ mho/m; $\epsilon_r = 45.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.58, 4.58, 4.58); Calibrated: 2009/02/12

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: Flat Phantom ELI4.0

- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (101x121x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.264 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 2.94 V/m; Power Drift = -0.158 dB

Peak SAR (extrapolated) = 0.490 W/kg

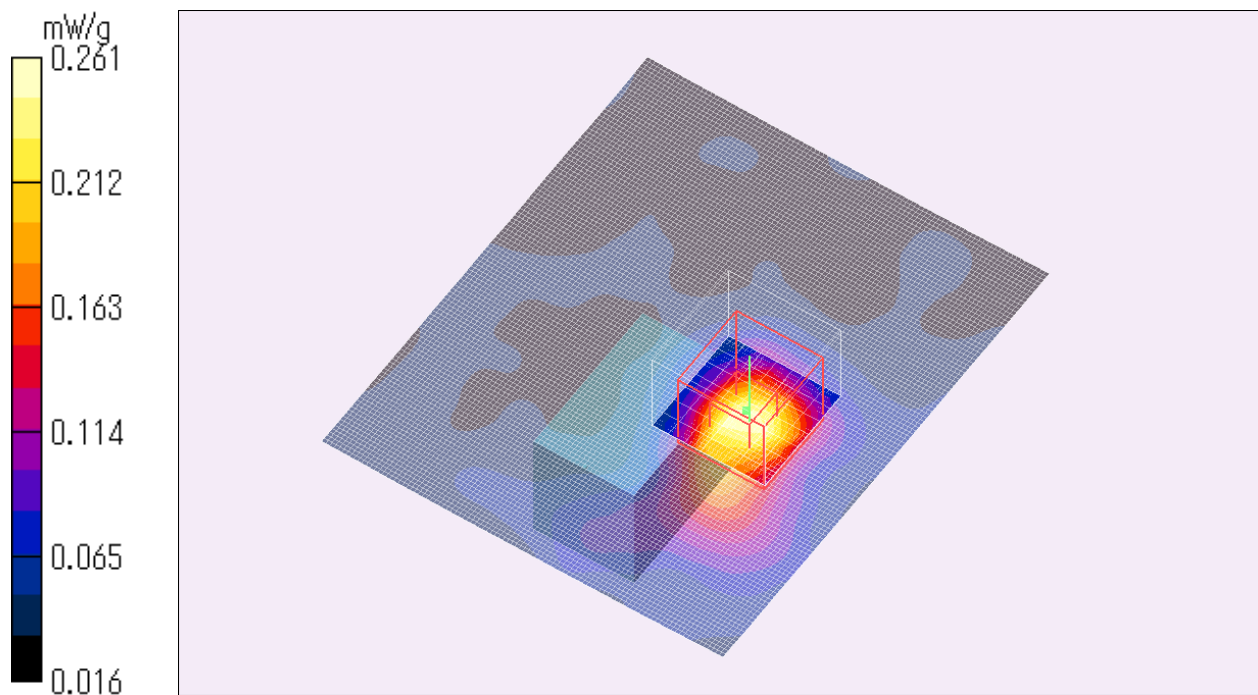
SAR(1 g) = 0.157 mW/g; SAR(10 g) = 0.079 mW/g

Maximum value of SAR (measured) = 0.261 mW/g

Test Date = 11/05/09

Ambient Temperature = 24.5 degree.c

Liquid Temperature = Before 23.8 degree.C , After 23.8 degree.C



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DY-WL10/ ant 0/ Vertical-Right side/ Front+Rear radiation / 11a BPSK/ 5240MHz

Crest factor: 1

Medium: M5200 Medium parameters used: $f = 5200$ MHz; $\sigma = 5.58$ mho/m; $\epsilon_r = 45.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.58, 4.58, 4.58); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (101x121x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.534 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 4.09 V/m; Power Drift = -0.108 dB

Peak SAR (extrapolated) = 0.944 W/kg

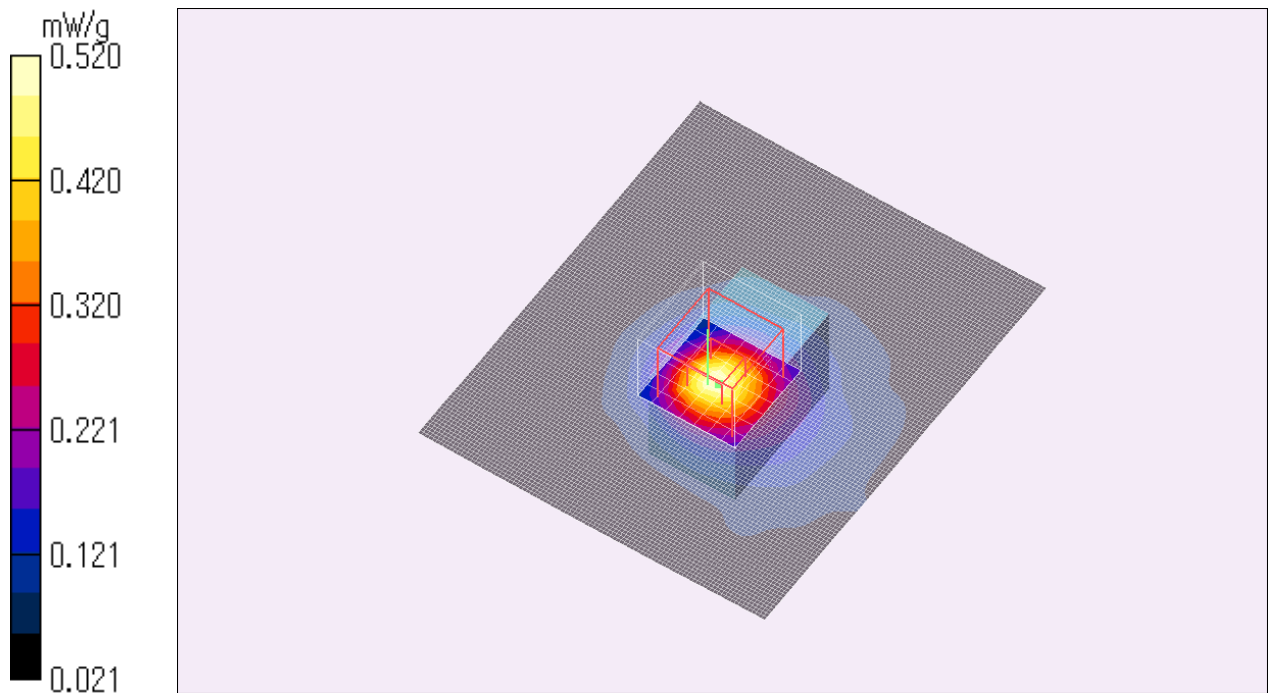
SAR(1 g) = 0.300 mW/g; SAR(10 g) = 0.134 mW/g

Maximum value of SAR (measured) = 0.520 mW/g

Test Date = 11/05/09

Ambient Temperature = 24.5 degree.c

Liquid Temperature = Before 23.8 degree.C , After 23.8 degree.C



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DY-WL10/ ant 0/ Vertical-Left side/ Default radiation/ 11a BPSK/ 5240MHz

Crest factor: 1

Medium: M5200 Medium parameters used: $f = 5200$ MHz; $\sigma = 5.56$ mho/m; $\epsilon_r = 45.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.58, 4.58, 4.58); Calibrated: 2009/02/12

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: Flat Phantom ELI4.0

- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (101x121x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.108 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 2.86 V/m; Power Drift = -0.102 dB

Peak SAR (extrapolated) = 0.196 W/kg

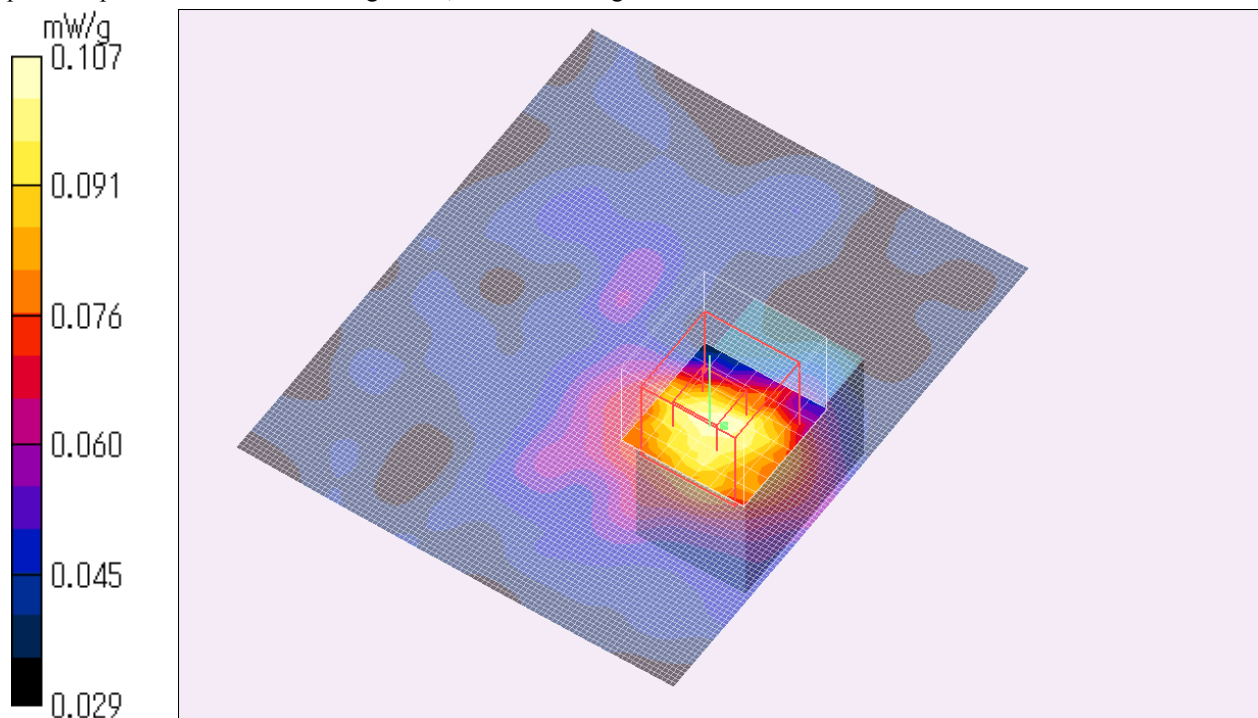
SAR(1 g) = 0.077 mW/g; SAR(10 g) = 0.057 mW/g

Maximum value of SAR (measured) = 0.107 mW/g

Test Date = 10/23/09

Ambient Temperature = 24.5 degree.c

Liquid Temperature = Before 23.6 degree.C , After 23.6 degree.C



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DY-WL10/ ant 0/ Horizontal-Front/ Front radiation/ 11n-20 BPSK/ 5240MHz

Crest factor: 1

Medium: M5200 Medium parameters used: $f = 5200$ MHz; $\sigma = 5.56$ mho/m; $\epsilon_r = 45.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.58, 4.58, 4.58); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (101x121x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.719 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 8.22 V/m; Power Drift = 0.033 dB

Peak SAR (extrapolated) = 1.24 W/kg

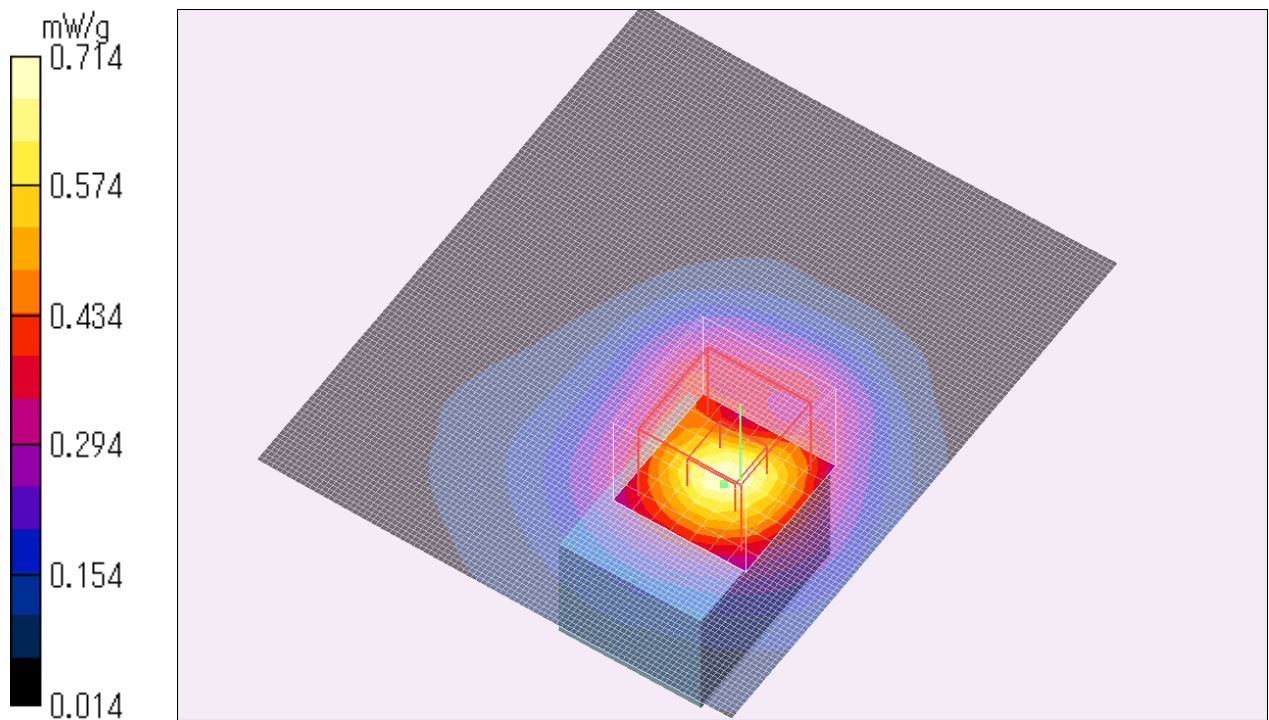
SAR(1 g) = 0.407 mW/g; SAR(10 g) = 0.176 mW/g

Maximum value of SAR (measured) = 0.714 mW/g

Test Date = 10/23/09

Ambient Temperature = 24.5 degree.c

Liquid Temperature = Before 23.5degree.C , After 23.5 degree.C



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DY-WL10/ ant 0/ Horizontal-Front/ Front radiation/ 11n-40 BPSK/ 5230MHz

Crest factor: 1

Medium: M5200 Medium parameters used: $f = 5200$ MHz; $\sigma = 5.56$ mho/m; $\epsilon_r = 45.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.58, 4.58, 4.58); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (101x121x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.363 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 3.75 V/m; Power Drift = 0.136 dB

Peak SAR (extrapolated) = 0.635 W/kg

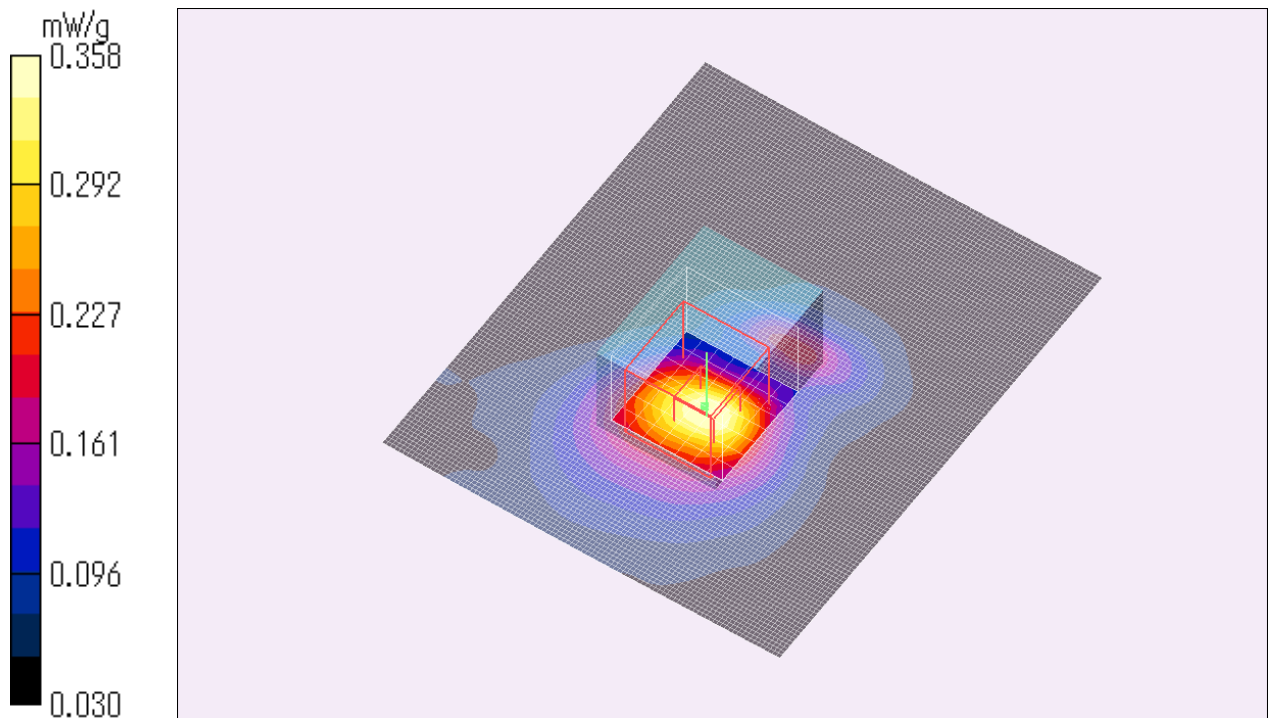
SAR(1 g) = 0.219 mW/g; SAR(10 g) = 0.110 mW/g

Maximum value of SAR (measured) = 0.358 mW/g

Test Date = 10/23/09

Ambient Temperature = 24.5 degree.c

Liquid Temperature = Before 23.5degree.C , After 23.5 degree.C



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DY-WL10/ ant 0/ Horizontal-Front/ Front radiation/ 11n-20 BPSK/ 5180MHz

Crest factor: 1

Medium: M5200 Medium parameters used: $f = 5200$ MHz; $\sigma = 5.56$ mho/m; $\epsilon_r = 45.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.58, 4.58, 4.58); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (101x121x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.881 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 7.54 V/m; Power Drift = 0.086 dB

Peak SAR (extrapolated) = 1.53 W/kg

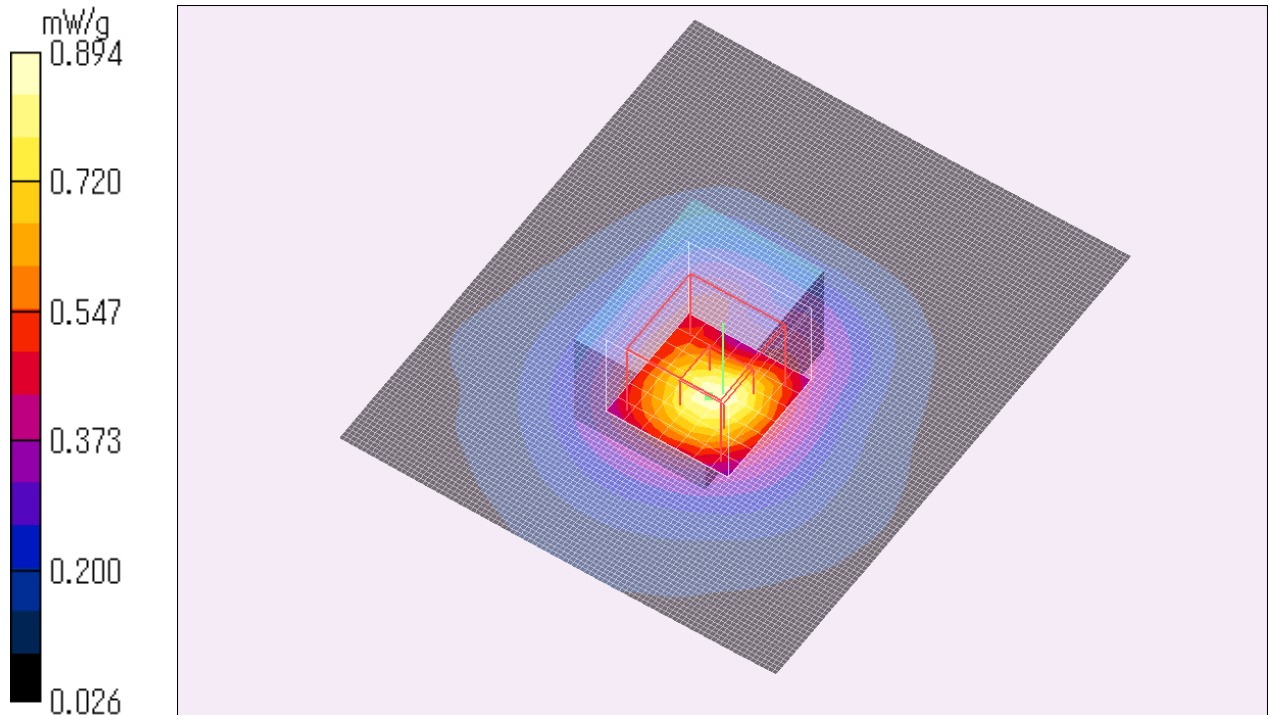
SAR(1 g) = 0.512 mW/g; SAR(10 g) = 0.230 mW/g

Maximum value of SAR (measured) = 0.894 mW/g

Test Date = 10/23/09

Ambient Temperature = 24.5 degree.c

Liquid Temperature = Before 23.5degree.C , After 23.5 degree.C



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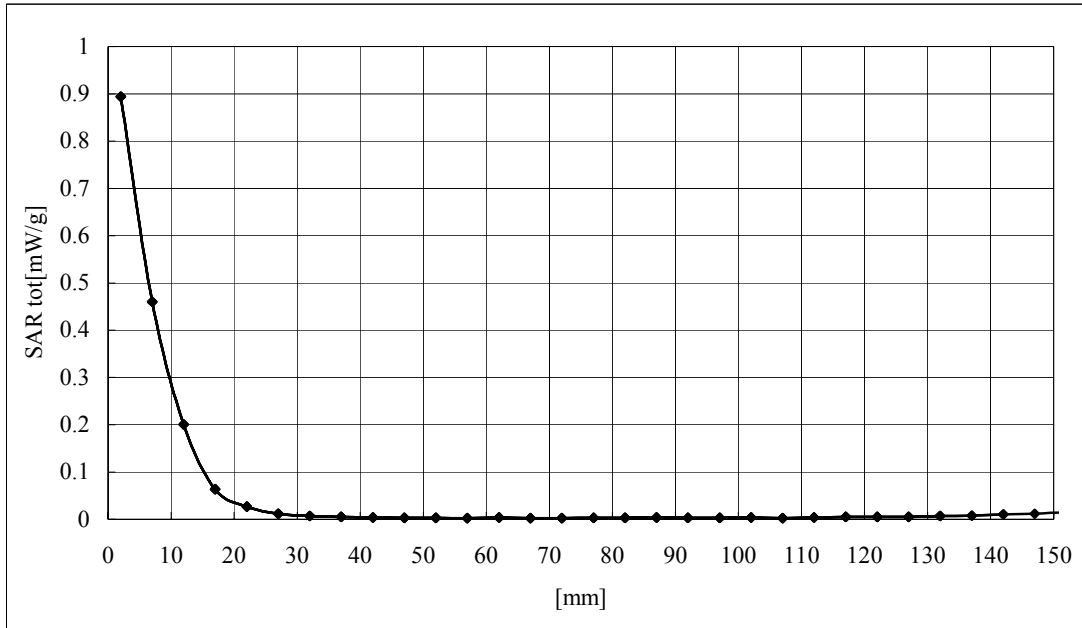
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Z-axis scan at max SAR location



DY-WL10/ ant 0/ Horizontal-Front/ Front radiation/ 11n-20 BPSK/ 5280MHz

Crest factor: 1

Medium: M5200 Medium parameters used: $f = 5300$ MHz; $\sigma = 5.60$ mho/m; $\epsilon_r = 45.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.38, 4.38, 4.38); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (101x121x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.722 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 7.95 V/m; Power Drift = 0.150 dB

Peak SAR (extrapolated) = 1.30 W/kg

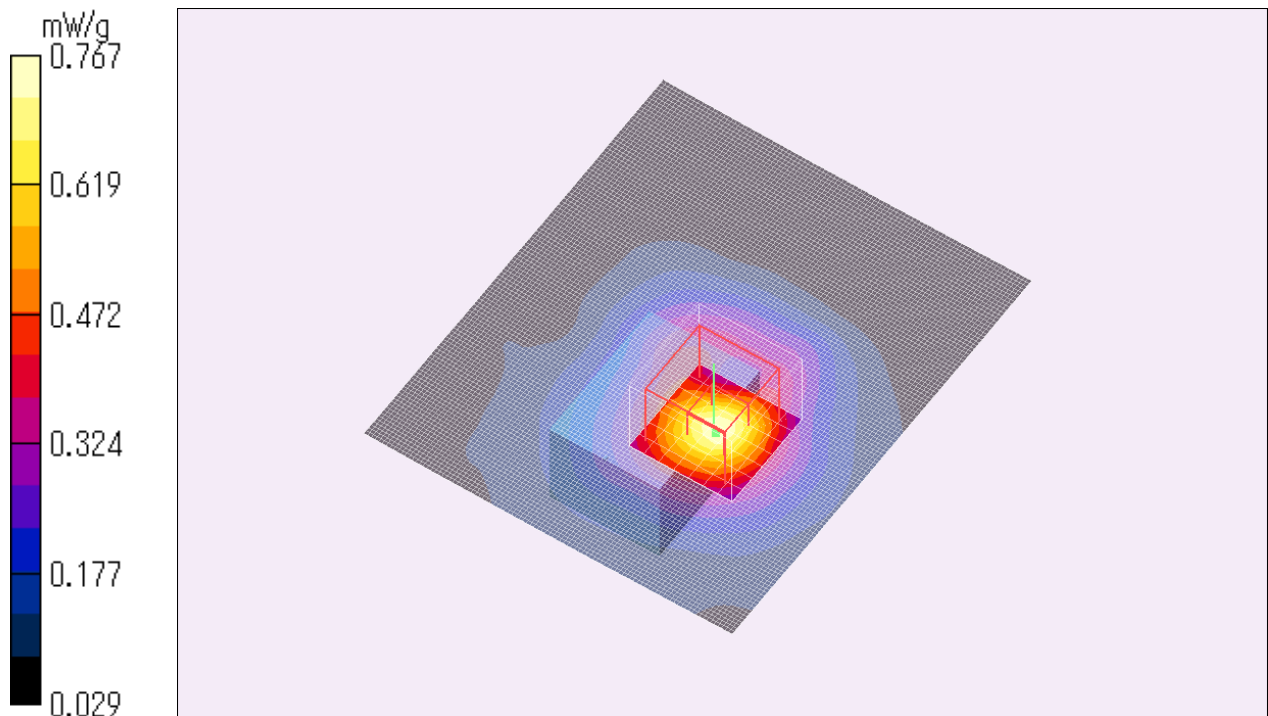
SAR(1 g) = 0.447 mW/g; SAR(10 g) = 0.205 mW/g

Maximum value of SAR (measured) = 0.767 mW/g

Test Date = 10/23/09

Ambient Temperature = 24.5 degree.c

Liquid Temperature = Before 23.5degree.C , After 23.5 degree.C



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DY-WL10/ ant 0/ Horizontal-Front/ Front radiation/ 11n-20 BPSK/ 5320MHz

Crest factor: 1

Medium: M5200 Medium parameters used: $f = 5300$ MHz; $\sigma = 5.60$ mho/m; $\epsilon_r = 45.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.38, 4.38, 4.38); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (101x121x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.632 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 6.30 V/m; Power Drift = 0.118 dB

Peak SAR (extrapolated) = 1.14 W/kg

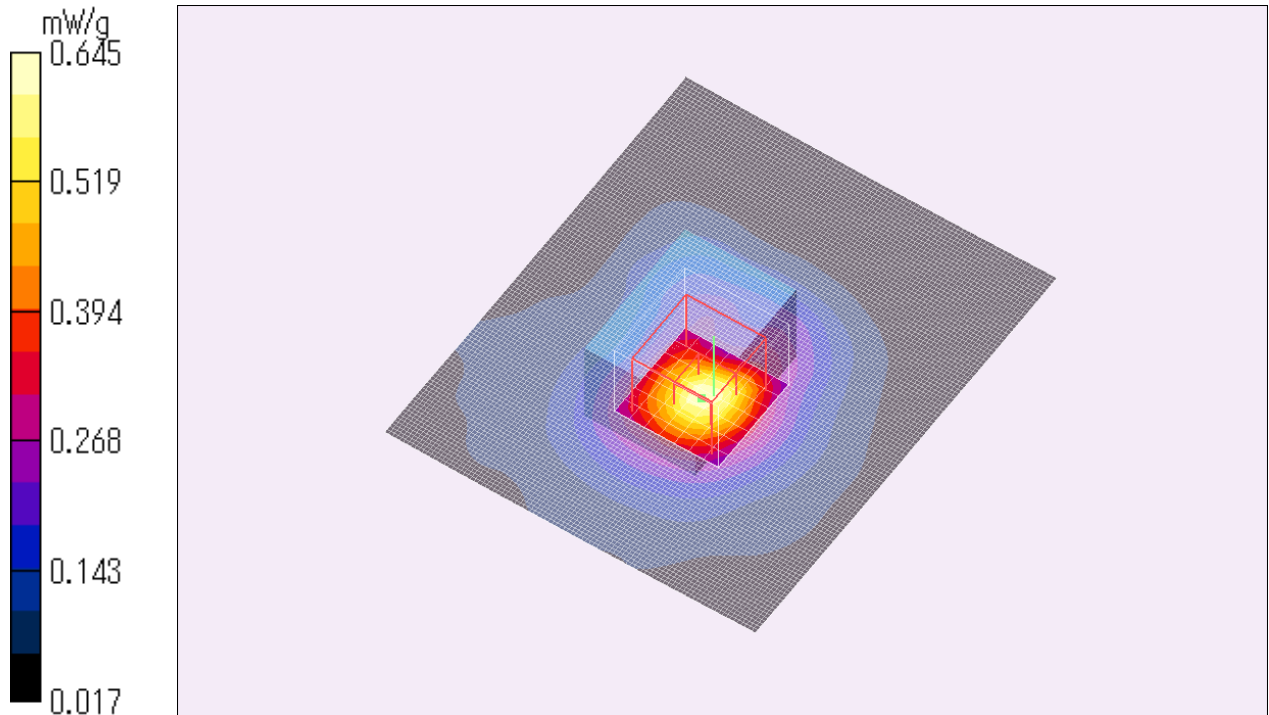
SAR(1 g) = 0.369 mW/g; SAR(10 g) = 0.166 mW/g

Maximum value of SAR (measured) = 0.645 mW/g

Test Date = 10/23/09

Ambient Temperature = 24.5 degree.c

Liquid Temperature = Before 23.5degree.C , After 23.5 degree.C



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3. Measurement data (Low/Middle band (5180-5320MHz), ant 1)

DY-WL10/ ant 1/ Horizontal-Front/ Default radiation / 11a BPSK/ 5240MHz

Crest factor: 1

Medium: M5200 Medium parameters used: $f = 5200$ MHz; $\sigma = 5.58$ mho/m; $\epsilon_r = 46.0$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.58, 4.58, 4.58); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (101x121x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.472 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 8.67 V/m; Power Drift = 0.153 dB

Peak SAR (extrapolated) = 0.814 W/kg

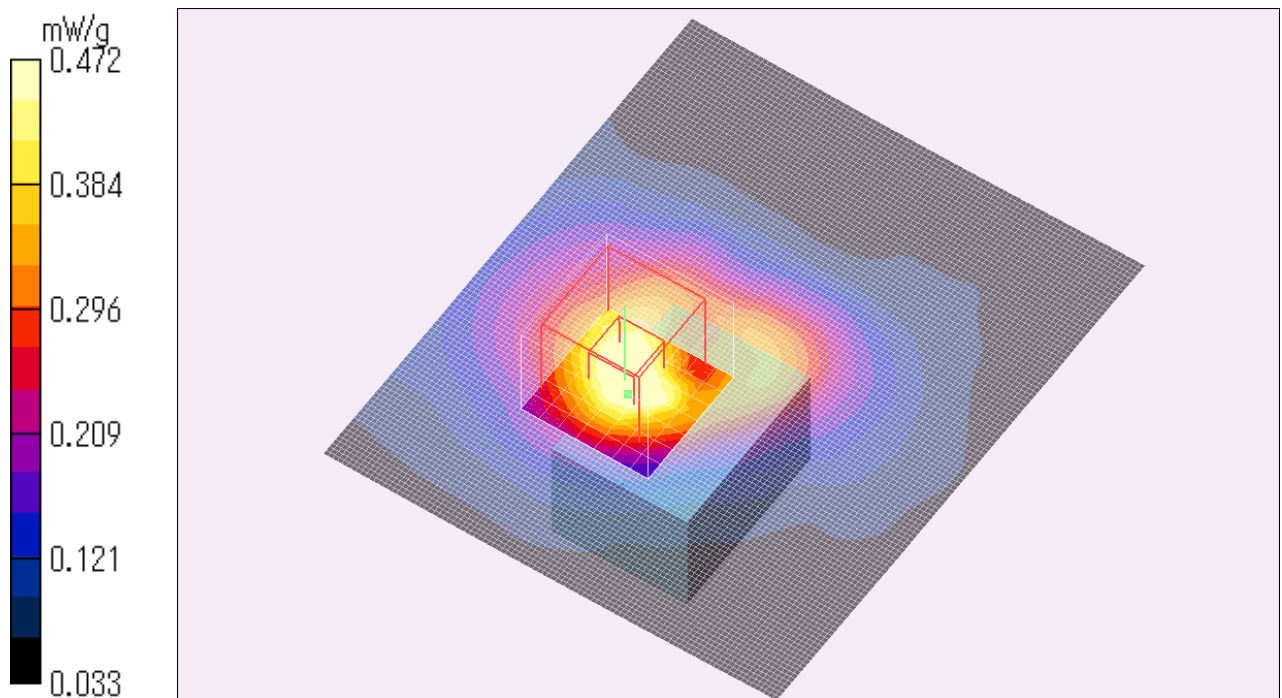
SAR(1 g) = 0.311 mW/g; SAR(10 g) = 0.155 mW/g

Maximum value of SAR (measured) = 0.511 mW/g

Test Date = 10/26/09

Ambient Temperature = 24.6 degree.c

Liquid Temperature = Before 23.6 degree.C , After 23.6 degree.C



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DY-WL10/ ant 1/ Horizontal-Front/ Front radiation / 11a BPSK/ 5240MHz

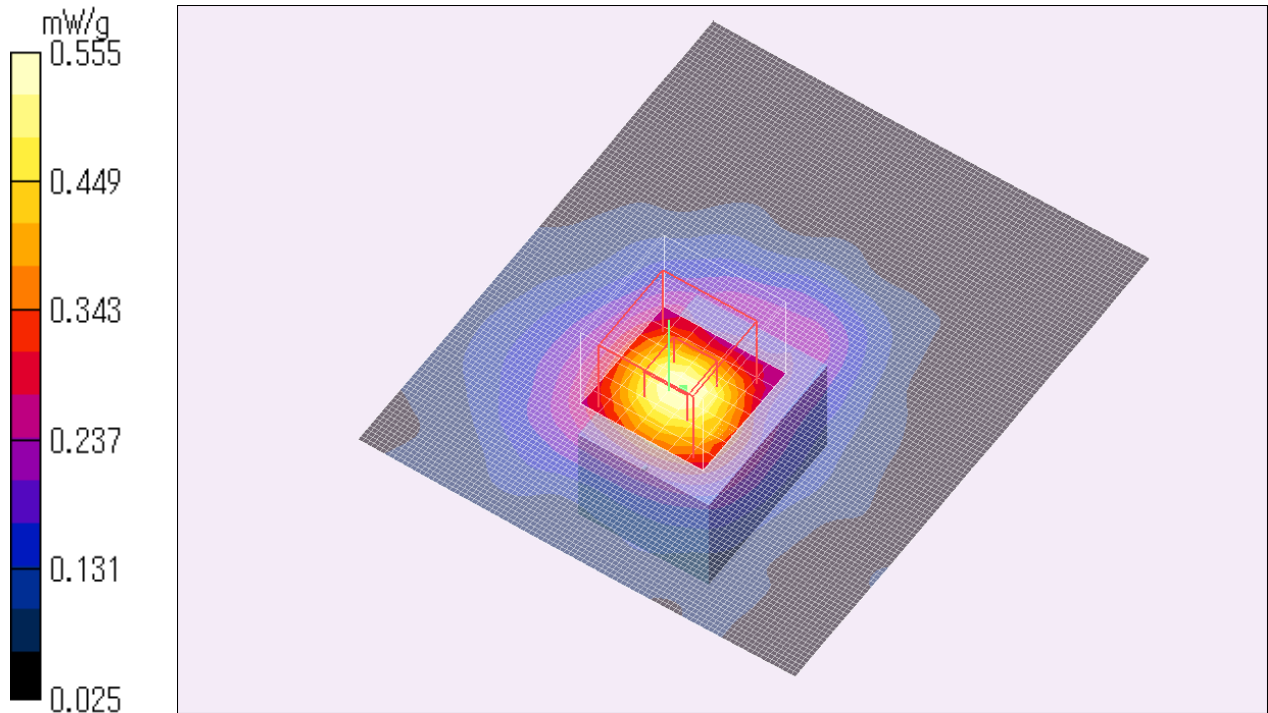
Crest factor: 1
Medium: M5200 Medium parameters used: $f = 5200$ MHz; $\sigma = 5.58$ mho/m; $\epsilon_r = 46.0$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3507; ConvF(4.58, 4.58, 4.58); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (101x121x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.552 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 6.90 V/m; Power Drift = -0.194 dB
Peak SAR (extrapolated) = 0.937 W/kg

SAR(1 g) = 0.335 mW/g; SAR(10 g) = 0.161 mW/g
Maximum value of SAR (measured) = 0.555 mW/g

Test Date = 10/26/09
Ambient Temperature = 24.6 degree.c
Liquid Temperature = Before 23.6 degree.C , After 23.6 degree.C



DY-WL10/ ant 1/ Horizontal-Front/ Rear radiation / 11a BPSK/ 5240MHz

Crest factor: 1

Medium: M5200 Medium parameters used: $f = 5200$ MHz; $\sigma = 5.58$ mho/m; $\epsilon_r = 45.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.58, 4.58, 4.58); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (101x121x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.597 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 5.98 V/m; Power Drift = 0.164 dB

Peak SAR (extrapolated) = 1.02 W/kg

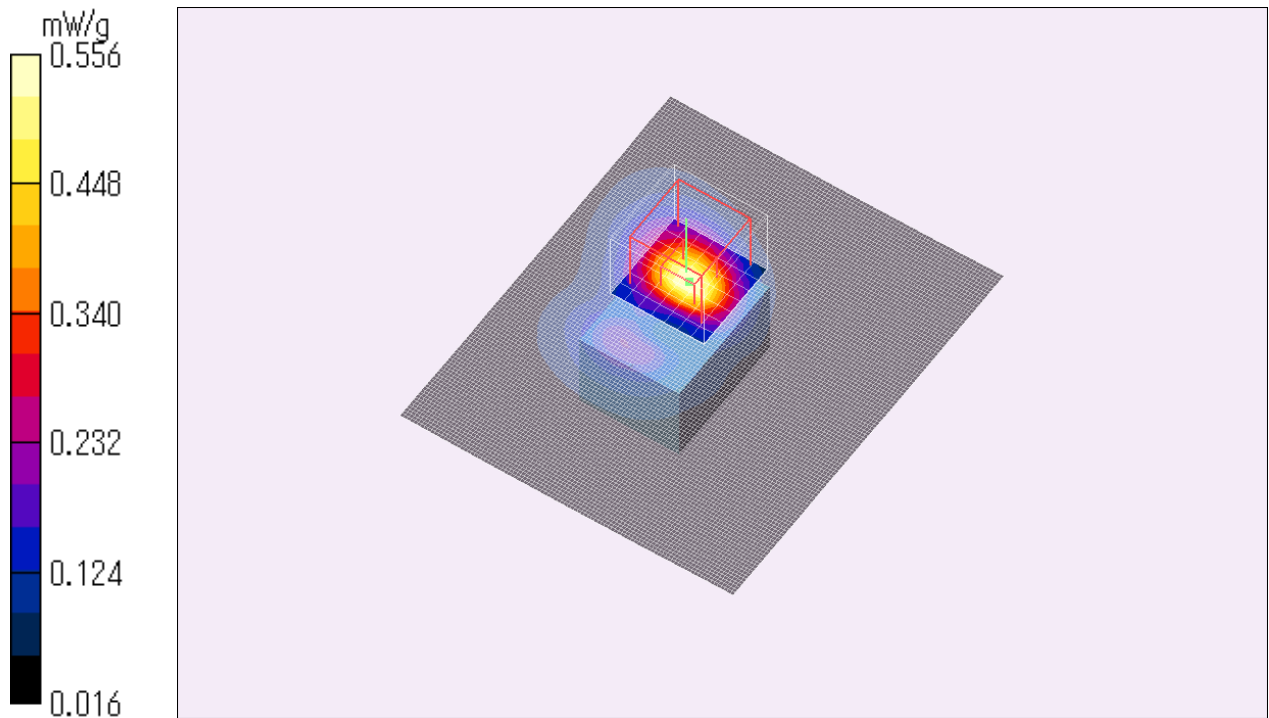
SAR(1 g) = 0.317 mW/g; SAR(10 g) = 0.122 mW/g

Maximum value of SAR (measured) = 0.556 mW/g

Test Date = 11/05/09

Ambient Temperature = 24.5 degree.c

Liquid Temperature = Before 23.6 degree.C , After 23.6 degree.C



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DY-WL10/ ant 1/ Horizontal-Front/ Front+Rear radiation / 11a BPSK/ 5240MHz

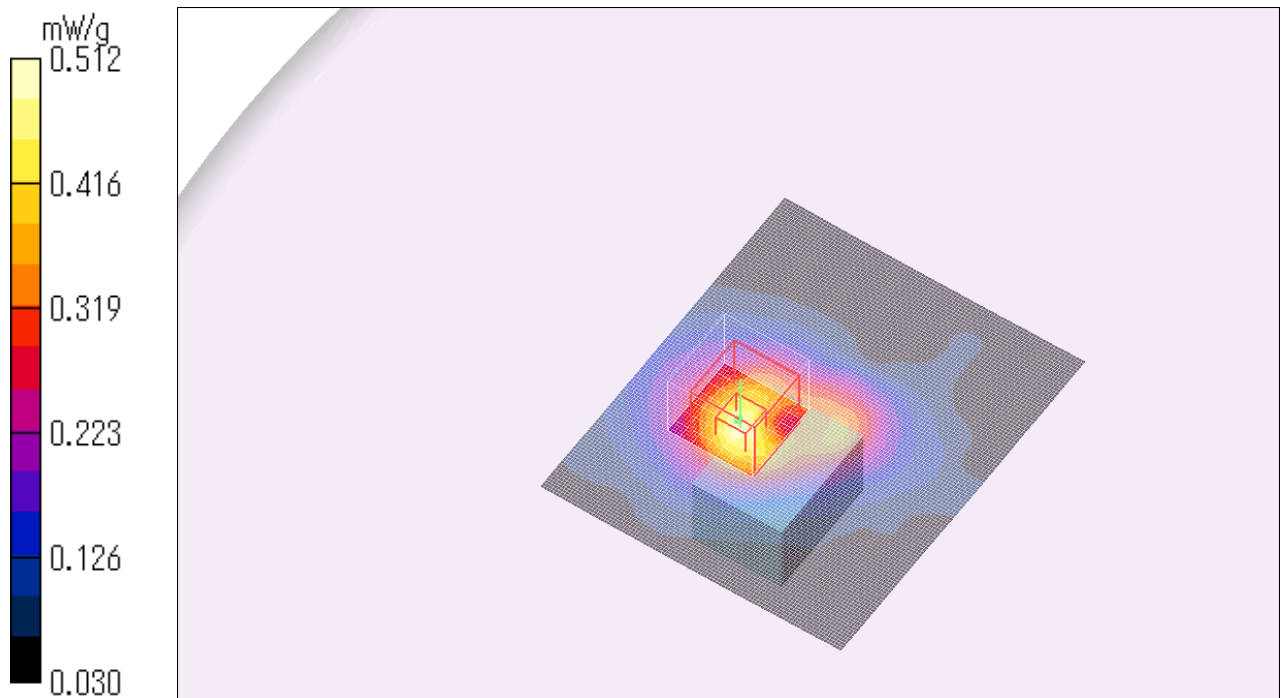
Crest factor: 1
Medium: M5200 Medium parameters used: $f = 5200$ MHz; $\sigma = 5.58$ mho/m; $\epsilon_r = 46.0$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3507; ConvF(4.58, 4.58, 4.58); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (101x121x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.486 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 8.50 V/m; Power Drift = 0.091 dB
Peak SAR (extrapolated) = 0.791 W/kg

SAR(1 g) = 0.300 mW/g; SAR(10 g) = 0.148 mW/g
Maximum value of SAR (measured) = 0.512 mW/g

Test Date = 10/26/09
Ambient Temperature = 24.6 degree.c
Liquid Temperature = Before 23.6 degree.C , After 23.6 degree.C



DY-WL10/ ant 1/ Horizontal-Rear/ Default radiation / 11a BPSK/ 5240MHz

Crest factor: 1

Medium: M5200 Medium parameters used: $f = 5200$ MHz; $\sigma = 5.58$ mho/m; $\epsilon_r = 46.0$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.58, 4.58, 4.58); Calibrated: 2009/02/12

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: Flat Phantom ELI4.0

- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (101x121x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.186 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 3.90 V/m; Power Drift = 0.186 dB

Peak SAR (extrapolated) = 0.342 W/kg

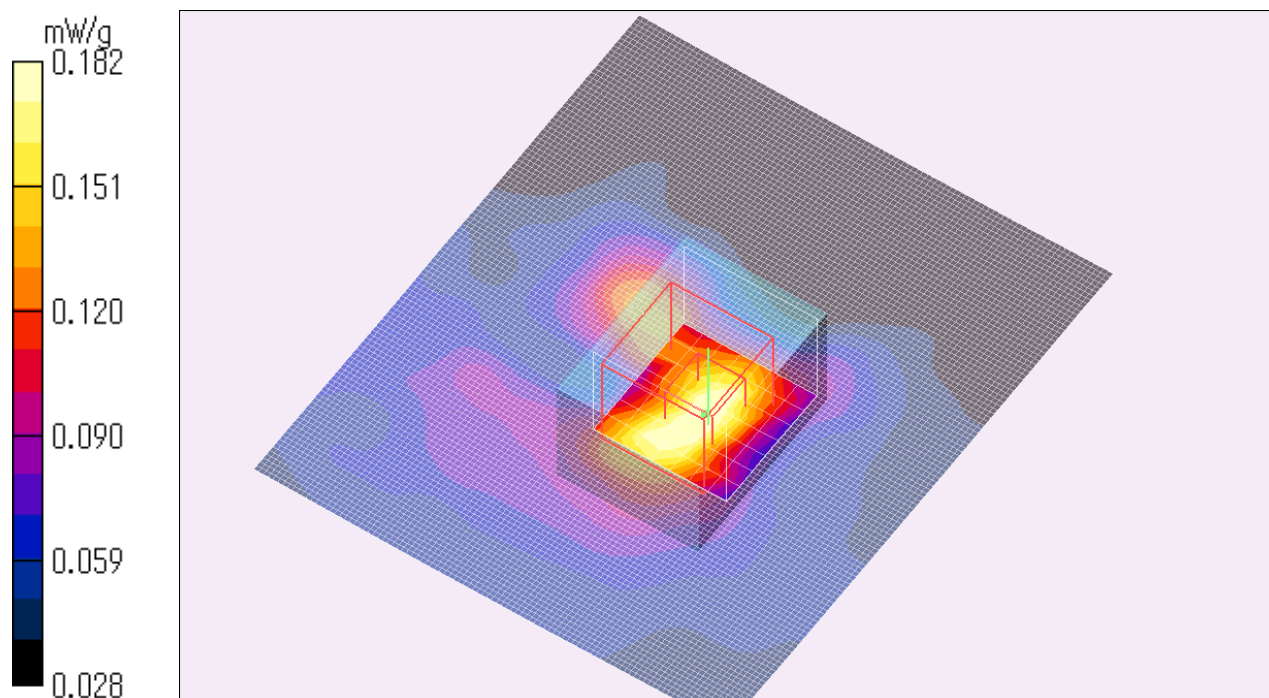
SAR(1 g) = 0.121 mW/g; SAR(10 g) = 0.069 mW/g

Maximum value of SAR (measured) = 0.182 mW/g

Test Date = 10/26/09

Ambient Temperature = 24.6 degree.c

Liquid Temperature = Before 23.6 degree.C , After 23.6 degree.C



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DY-WL10/ ant 1/ Vertical-Right side / Default radiation / 11a BPSK/ 5240MHz

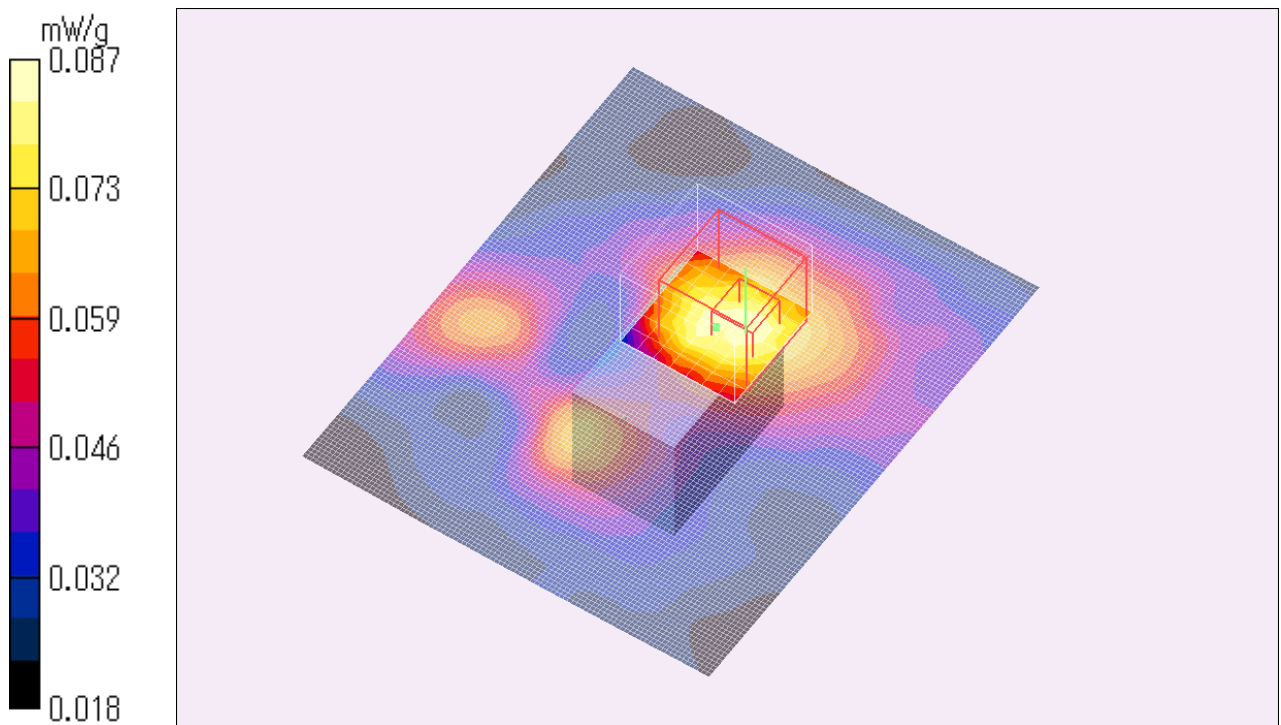
Crest factor: 1
Medium: M5200 Medium parameters used: $f = 5200$ MHz; $\sigma = 5.58$ mho/m; $\epsilon_r = 46.0$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3507; ConvF(4.58, 4.58, 4.58); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (101x121x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.094 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 4.34 V/m; Power Drift = 0.072 dB
Peak SAR (extrapolated) = 0.160 W/kg

SAR(1 g) = 0.058 mW/g; SAR(10 g) = 0.038 mW/g
Maximum value of SAR (measured) = 0.087 mW/g

Test Date = 10/26/09
Ambient Temperature = 24.6 degree.c
Liquid Temperature = Before 23.5degree.C , After 23.5 degree.C



DY-WL10/ ant 1/ Vertical-Left side / Default radiation / 11a BPSK/ 5240MHz

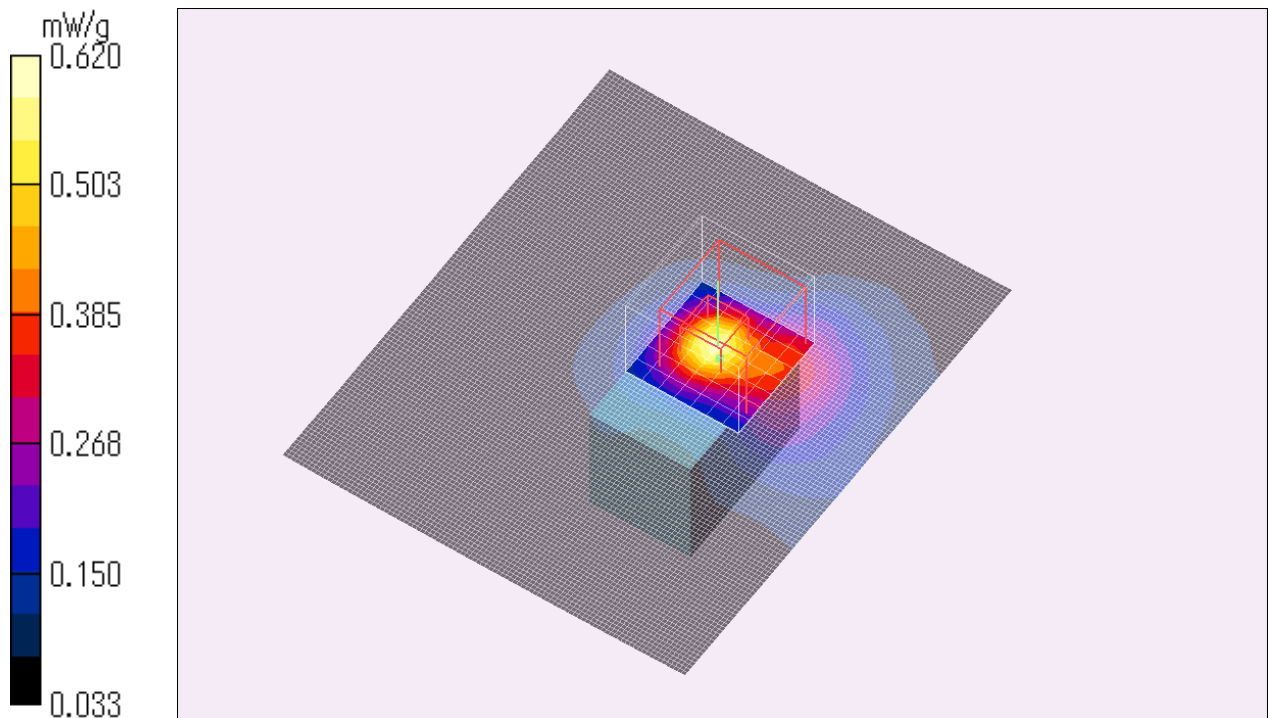
Crest factor: 1
Medium: M5200 Medium parameters used: $f = 5200$ MHz; $\sigma = 5.58$ mho/m; $\epsilon_r = 46.0$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3507; ConvF(4.58, 4.58, 4.58); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (101x121x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.558 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 8.39 V/m; Power Drift = 0.166 dB
Peak SAR (extrapolated) = 1.06 W/kg

SAR(1 g) = 0.341 mW/g; SAR(10 g) = 0.150 mW/g
Maximum value of SAR (measured) = 0.620 mW/g

Test Date = 10/26/09
Ambient Temperature = 24.6 degree.c
Liquid Temperature = Before 23.5degree.C , After 23.5 degree.C



DY-WL10/ ant 1/ Vertical-Left side / Front radiation / 11a BPSK/ 5240MHz

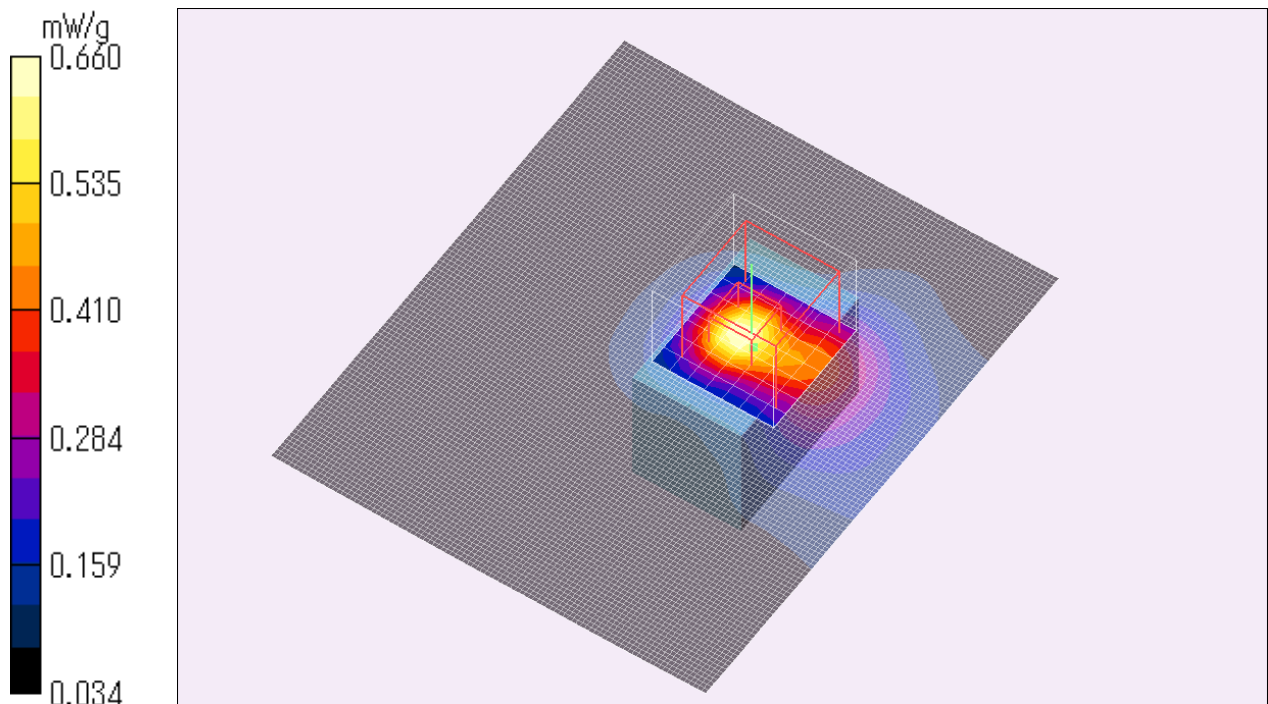
Crest factor: 1
Medium: M5200 Medium parameters used: $f = 5200$ MHz; $\sigma = 5.58$ mho/m; $\epsilon_r = 46.0$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3507; ConvF(4.58, 4.58, 4.58); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (101x121x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.624 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 9.29 V/m; Power Drift = 0.174 dB
Peak SAR (extrapolated) = 1.17 W/kg

SAR(1 g) = 0.371 mW/g; SAR(10 g) = 0.159 mW/g
Maximum value of SAR (measured) = 0.660 mW/g

Test Date = 10/26/09
Ambient Temperature = 24.6 degree.c
Liquid Temperature = Before 23.5degree.C , After 23.5 degree.C



DY-WL10/ ant 1/ Vertical-Left side / Rear radiation / 11a BPSK/ 5240MHz

Crest factor: 1

Medium: M5200 Medium parameters used: $f = 5200$ MHz; $\sigma = 5.58$ mho/m; $\epsilon_r = 45.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.58, 4.58, 4.58); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (101x121x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.170 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 4.08 V/m; Power Drift = -0.173 dB

Peak SAR (extrapolated) = 0.323 W/kg

SAR(1 g) = 0.107 mW/g; SAR(10 g) = 0.066 mW/g

Maximum value of SAR (measured) = 0.164 mW/g

Zoom Scan 2 (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 4.08 V/m; Power Drift = -0.173 dB

Peak SAR (extrapolated) = 0.396 W/kg

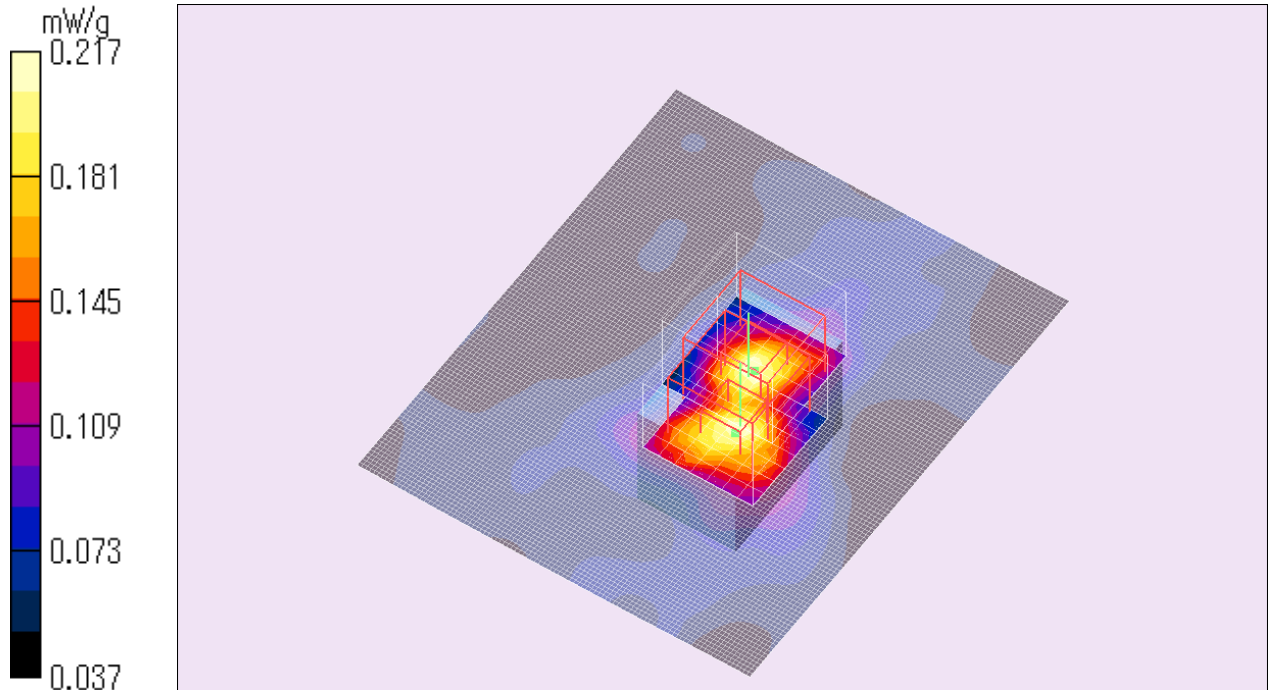
SAR(1 g) = 0.108 mW/g; SAR(10 g) = 0.068 mW/g

Maximum value of SAR (measured) = 0.175 mW/g

Test Date = 11/05/09

Ambient Temperature = 24.5 degree.c

Liquid Temperature = Before 23.5degree.C , After 23.5 degree.C



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DY-WL10/ ant 1/ Vertical-Left side / Front+Rear radiation / 11a BPSK/ 5240MHz

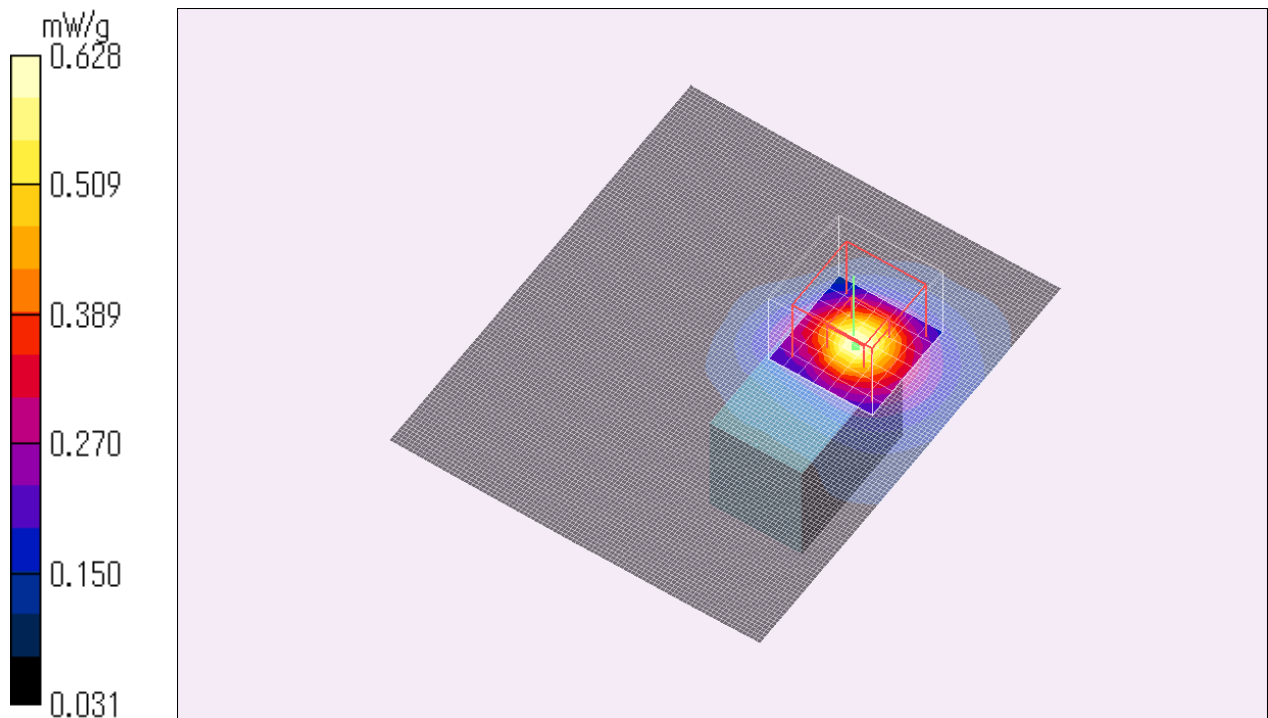
Crest factor: 1
Medium: M5200 Medium parameters used: $f = 5200$ MHz; $\sigma = 5.58$ mho/m; $\epsilon_r = 46.0$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3507; ConvF(4.58, 4.58, 4.58); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (101x121x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.620 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 11.3 V/m; Power Drift = 0.034 dB
Peak SAR (extrapolated) = 1.12 W/kg

SAR(1 g) = 0.362 mW/g; SAR(10 g) = 0.156 mW/g
Maximum value of SAR (measured) = 0.628 mW/g

Test Date = 10/26/09
Ambient Temperature = 24.6 degree.c
Liquid Temperature = Before 23.5degree.C , After 23.5 degree.C



DY-WL10/ ant 1/ Vertical-Left side / Front radiation / 11n-20 BPSK/ 5240MHz

Crest factor: 1

Medium: M5200 Medium parameters used: $f = 5200$ MHz; $\sigma = 5.58$ mho/m; $\epsilon_r = 46.0$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.58, 4.58, 4.58); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (101x121x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (interpolated) = 0.594 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2.5$ mm

Reference Value = 8.71 V/m; Power Drift = 0.132 dB

Peak SAR (extrapolated) = 1.18 W/kg

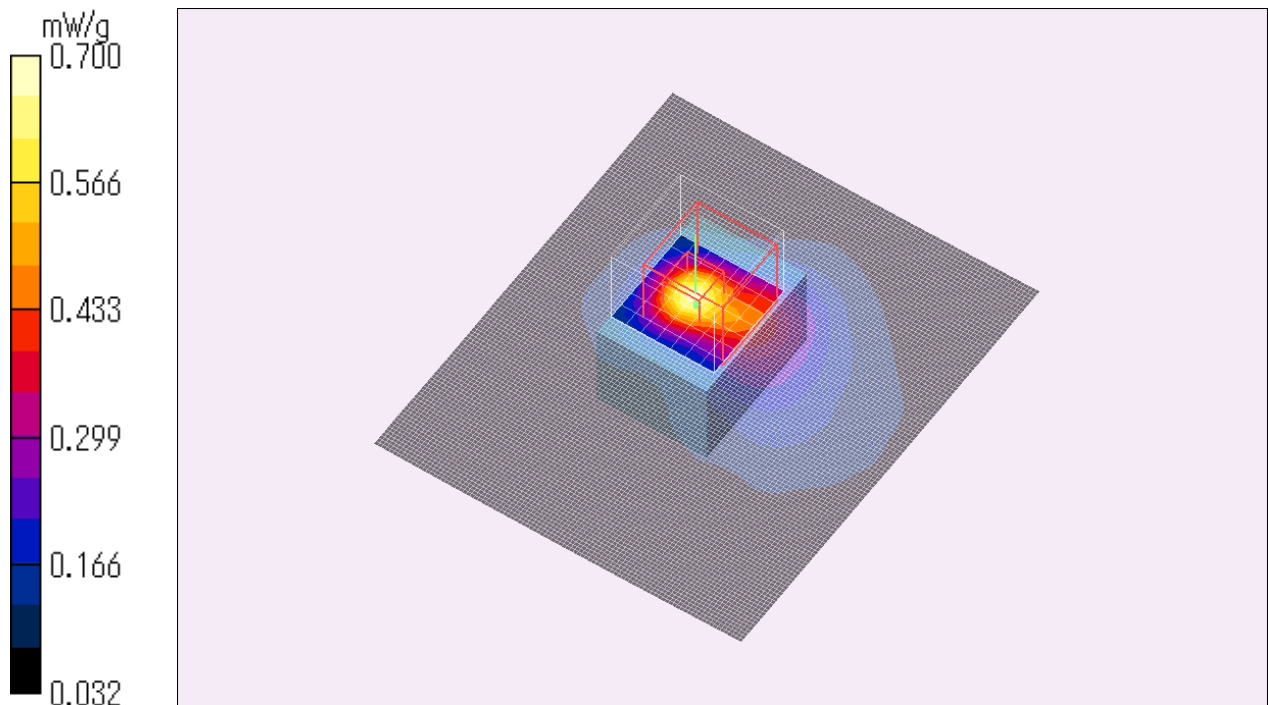
SAR(1 g) = 0.385 mW/g; SAR(10 g) = 0.165 mW/g

Maximum value of SAR (measured) = 0.700 mW/g

Test Date = 10/26/09

Ambient Temperature = 24.6 degree.c

Liquid Temperature = Before 23.5degree.C , After 23.5 degree.C



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DY-WL10/ ant 1/ Vertical-Left side / Front radiation / 11n-40 BPSK/ 5230MHz

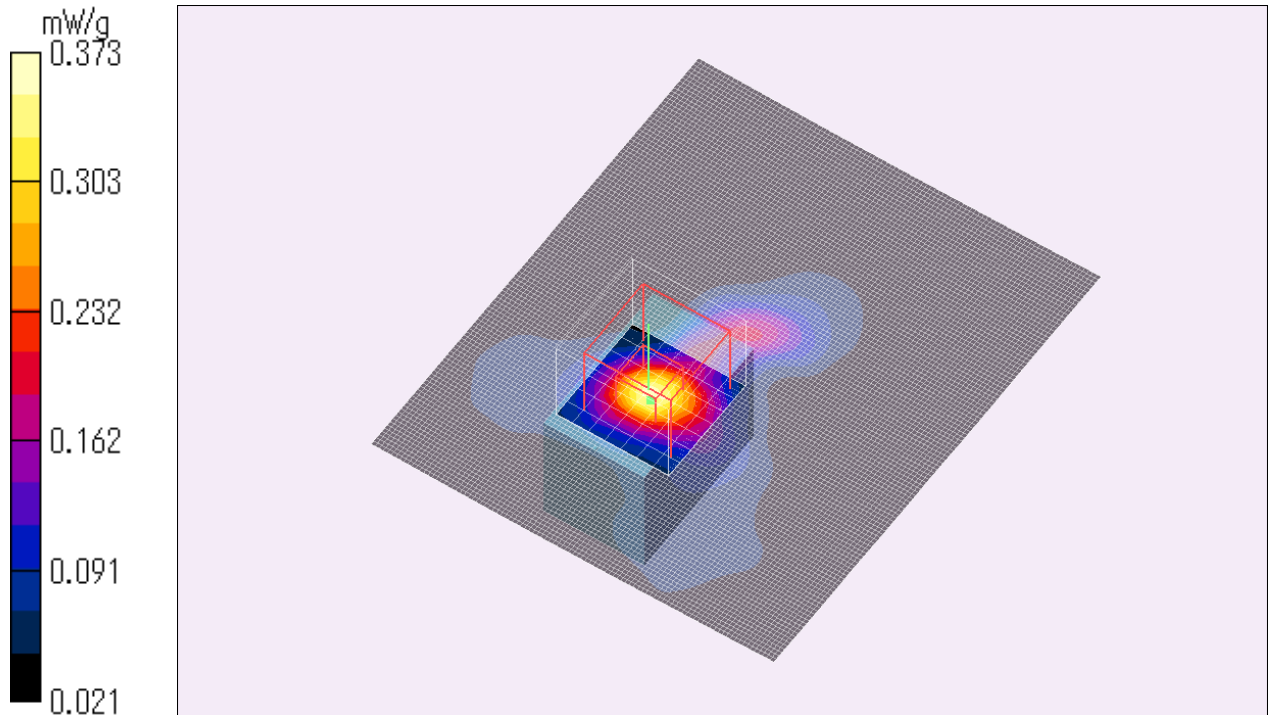
Crest factor: 1
Medium: M5200 Medium parameters used: $f = 5200$ MHz; $\sigma = 5.58$ mho/m; $\epsilon_r = 46.0$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3507; ConvF(4.58, 4.58, 4.58); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (101x121x1): Measurement grid: $dx=10$ mm, $dy=10$ mm
Maximum value of SAR (interpolated) = 0.371 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2.5$ mm
Reference Value = 3.79 V/m; Power Drift = 0.129 dB
Peak SAR (extrapolated) = 0.692 W/kg

SAR(1 g) = 0.207 mW/g; SAR(10 g) = 0.089 mW/g
Maximum value of SAR (measured) = 0.373 mW/g

Test Date = 10/26/09
Ambient Temperature = 24.6 degree.c
Liquid Temperature = Before 23.5degree.C , After 23.5 degree.C



DY-WL10/ ant 1/ Vertical-Left side / Front radiation / 11n-20 BPSK/ 5180MHz

Crest factor: 1

Medium: M5200 Medium parameters used: $f = 5200$ MHz; $\sigma = 5.58$ mho/m; $\epsilon_r = 46.0$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.58, 4.58, 4.58); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (101x121x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.850 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 2.60 V/m; Power Drift = 0.186 dB

Peak SAR (extrapolated) = 1.45 W/kg

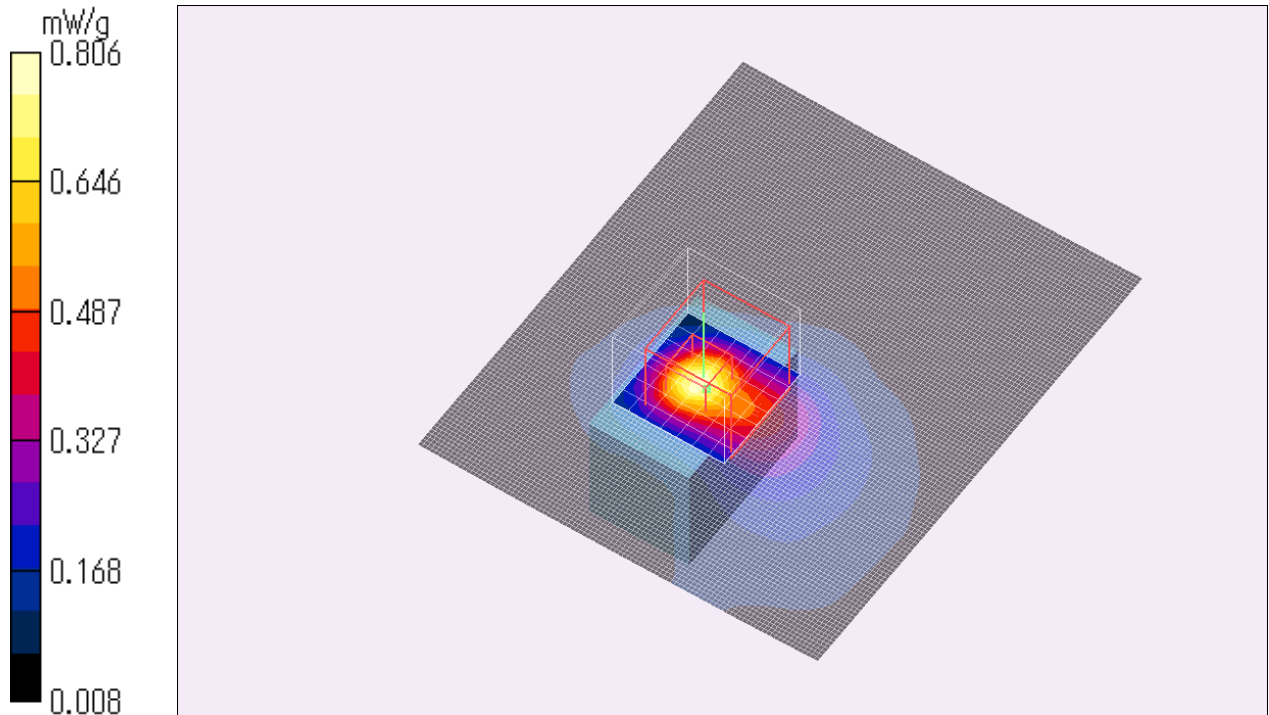
SAR(1 g) = 0.437 mW/g; SAR(10 g) = 0.173 mW/g

Maximum value of SAR (measured) = 0.806 mW/g

Test Date = 10/26/09

Ambient Temperature = 24.6 degree.c

Liquid Temperature = Before 23.5degree.C , After 23.5 degree.C



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DY-WL10/ ant 1/ Vertical-Left side / Front radiation / 11n-20 BPSK/ 5280MHz

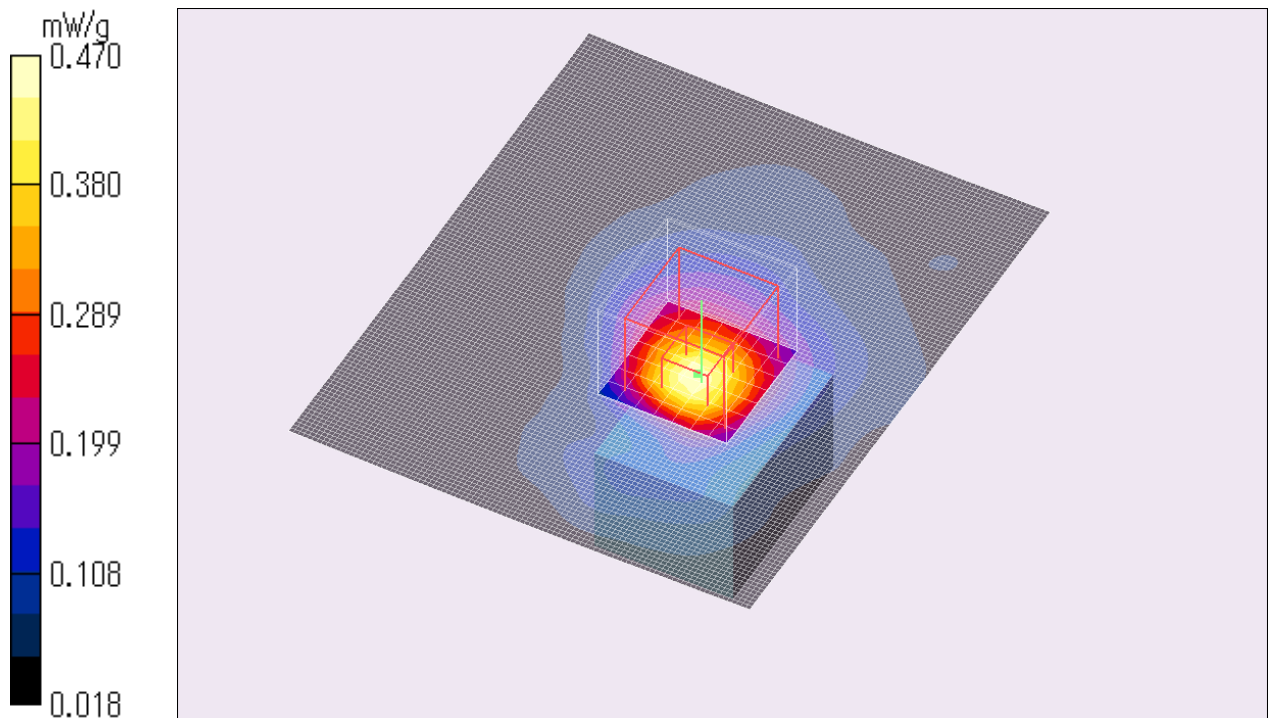
Crest factor: 1
Medium: M5200 Medium parameters used: $f = 5300$ MHz; $\sigma = 5.61$ mho/m; $\epsilon_r = 45.8$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3507; ConvF(4.38, 4.38, 4.38); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (101x121x1): Measurement grid: $dx=10$ mm, $dy=10$ mm
Maximum value of SAR (interpolated) = 0.478 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2.5$ mm
Reference Value = 5.94 V/m; Power Drift = 0.174 dB
Peak SAR (extrapolated) = 0.863 W/kg

SAR(1 g) = 0.264 mW/g; SAR(10 g) = 0.120 mW/g
Maximum value of SAR (measured) = 0.470 mW/g

Test Date = 10/26/09
Ambient Temperature = 24.6 degree.c
Liquid Temperature = Before 23.5degree.C , After 23.5 degree.C



DY-WL10/ ant 1/ Vertical-Left side / Front radiation / 11n-20 BPSK/ 5320MHz

Crest factor: 1
Medium: M5200 Medium parameters used: $f = 5300$ MHz; $\sigma = 5.61$ mho/m; $\epsilon_r = 45.8$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3507; ConvF(4.38, 4.38, 4.38); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (101x121x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.486 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 2.56 V/m; Power Drift = 0.155 dB
Peak SAR (extrapolated) = 0.896 W/kg

SAR(1 g) = 0.259 mW/g; SAR(10 g) = 0.130 mW/g
Maximum value of SAR (measured) = 0.451 mW/g

Test Date = 10/26/09
Ambient Temperature = 24.6 degree.c
Liquid Temperature = Before 23.5degree.C , After 23.5 degree.C

