

Test report No. : 25IE0245-HO-5

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APPENDIX 2 : SAR Measurement data

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IRF303JU / Body / Left Front ANT.1 / 2437MHz / 11b CCK(11Mbps)

Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.96$ mho/m; $\epsilon_r = 50.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

Electronics: DAE3 Sn516; Calibrated: 2005/03/10

Phantom: SAM 1196

Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.498 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.5 V/m; Power Drift = -0.232 dB

Peak SAR (extrapolated) = 0.790 W/kg

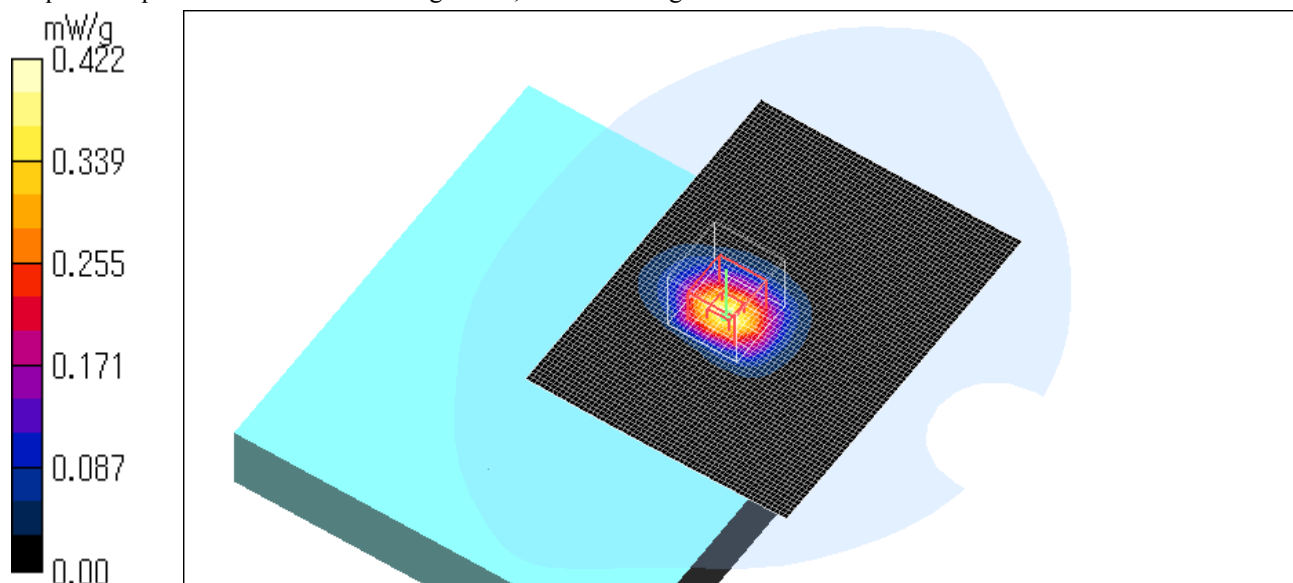
SAR(1 g) = 0.388 mW/g; SAR(10 g) = 0.197 mW/g

Maximum value of SAR (measured) = 0.422 mW/g

Test Date = 06/29/05

Ambient Temperature = 25.0 degree.C.

Liquid Temperature = Before 24.8 degree.C. , After 24.6 degree.C.



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IRF303JU / Body / Left Side ANT.1 / 2437MHz / 11b CCK (11Mbps)

Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.96$ mho/m; $\epsilon_r = 50.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

Electronics: DAE3 Sn516; Calibrated: 2005/03/10

Phantom: SAM 1196

Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 1.35 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.6 V/m; Power Drift = -0.289 dB

Peak SAR (extrapolated) = 2.54 W/kg

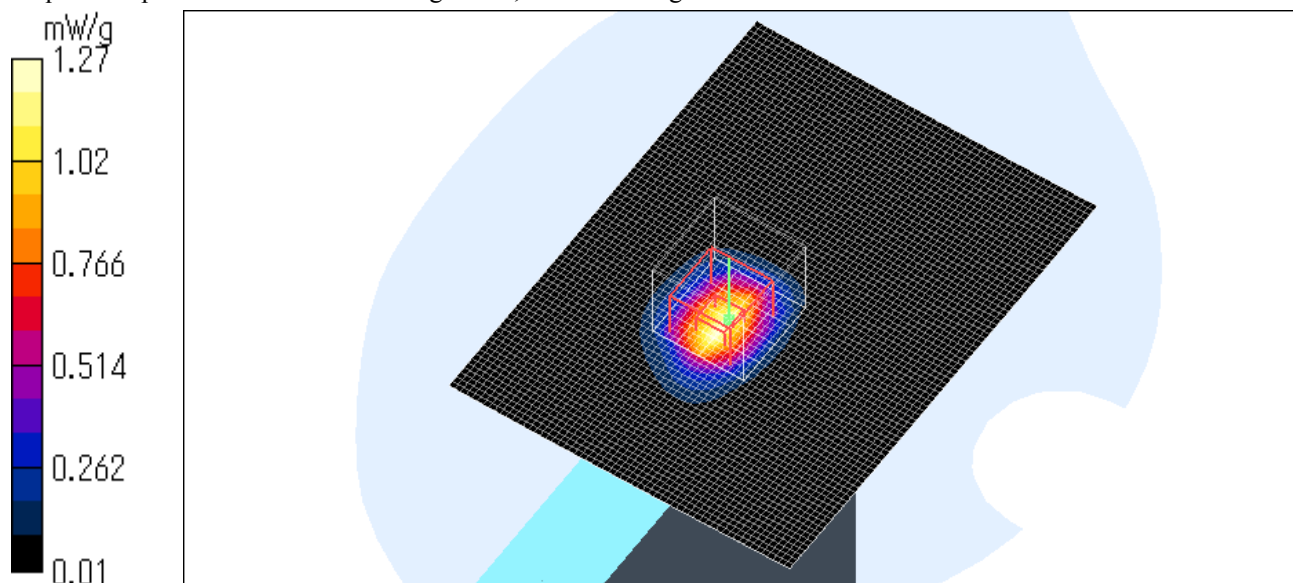
SAR(1 g) = 1.18 mW/g; SAR(10 g) = 0.554 mW/g

Maximum value of SAR (measured) = 1.27 mW/g

Test Date = 06/29/05

Ambient Temperature = 25.0 degree.C.

Liquid Temperature = Before 24.5 degree.C. , After 24.5 degree.C.



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IRF303JU / Body / Left Back ANT.1 / 2437MHz / 11b CCK(11Mbps)

Duty Cycle: 1:1

Medium parameters used: $f = 2450 \text{ MHz}$; $\sigma = 1.96 \text{ mho/m}$; $\epsilon_r = 50.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

Electronics: DAE3 Sn516; Calibrated: 2005/03/10

Phantom: SAM 1196

Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (61x81x1): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$

Maximum value of SAR (interpolated) = 0.056 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 5.62 V/m ; Power Drift = -0.217 dB

Peak SAR (extrapolated) = 0.096 W/kg

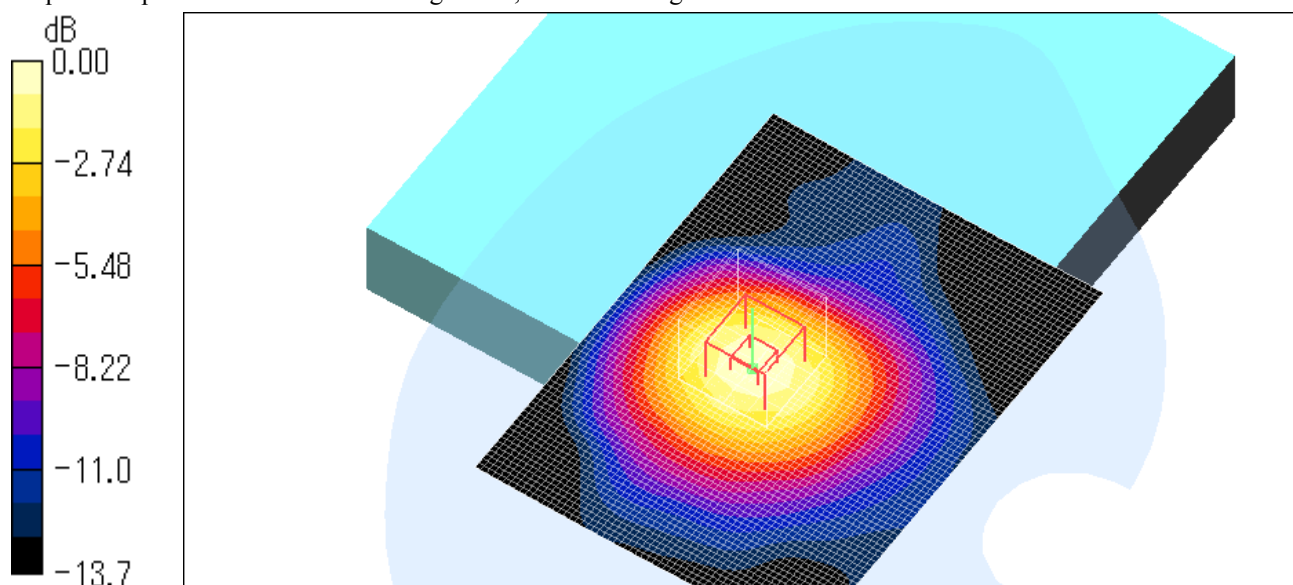
SAR(1 g) = 0.048 mW/g ; SAR(10 g) = 0.028 mW/g

Maximum value of SAR (measured) = 0.051 mW/g

Test Date = 06/29/05

Ambient Temperature = 25.0 degree.C .

Liquid Temperature = Before 24.5 degree.C , After 24.5 degree.C .



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IRF303JU / Body / Left Top ANT.1 / 2437MHz / CCK(11Mbps)

Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.96$ mho/m; $\epsilon_r = 50.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

Electronics: DAE3 Sn516; Calibrated: 2005/03/10

Phantom: SAM 1196

Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.020 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.12 V/m; Power Drift = -0.214 dB

Peak SAR (extrapolated) = 0.041 W/kg

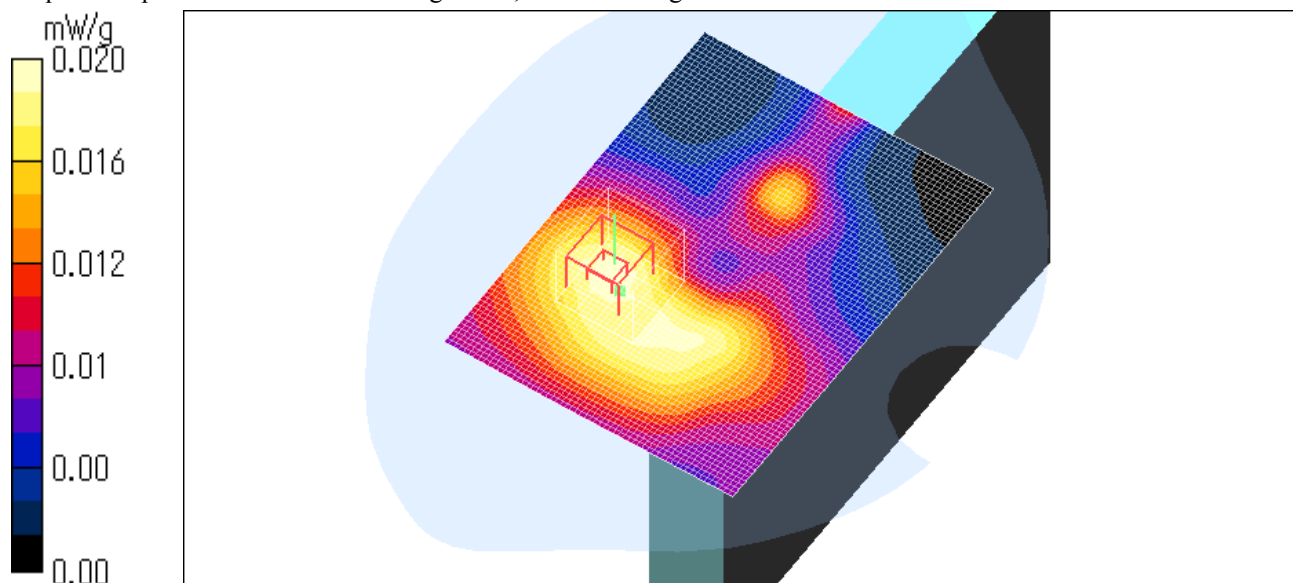
SAR(1 g) = 0.019 mW/g; SAR(10 g) = 0.012 mW/g

Maximum value of SAR (measured) = 0.020 mW/g

Test Date = 06/29/05

Ambient Temperature = 25.0 degree.C.

Liquid Temperature = Before 24.4 degree.C. , After 24.4 degree.C.



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IRF303JU / Body / Left Side ANT.1 / 2412MHz / 11b CCK (11Mbps)

Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.96$ mho/m; $\epsilon_r = 50.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

Electronics: DAE3 Sn516; Calibrated: 2005/03/10

Phantom: SAM 1196

Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 1.73 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.9 V/m; Power Drift = -0.131 dB

Peak SAR (extrapolated) = 3.09 W/kg

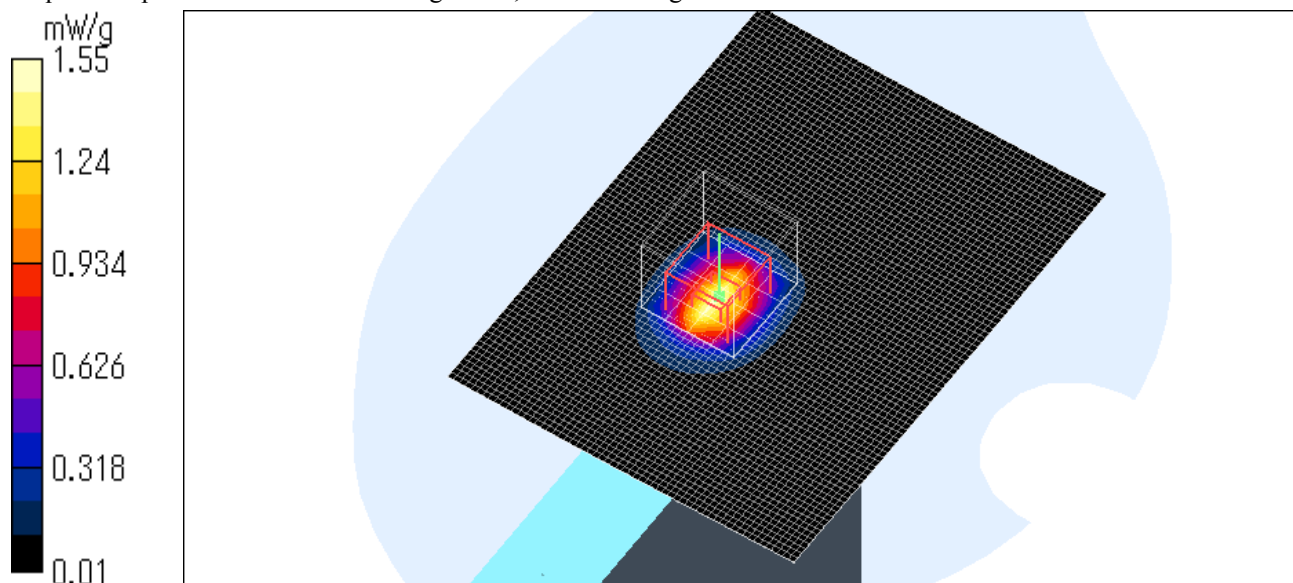
SAR(1 g) = 1.42 mW/g; SAR(10 g) = 0.663 mW/g

Maximum value of SAR (measured) = 1.55 mW/g

Test Date = 06/29/05

Ambient Temperature = 25.0 degree.C.

Liquid Temperature = Before 24.7 degree.C. , After 24.7 degree.C.



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Z-axis scan at max SAR location

IRF303JU / Body / Left Side ANT.1 / 2412MHz / 11b CCK (11Mbps)

Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.96$ mho/m; $\epsilon_r = 50.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

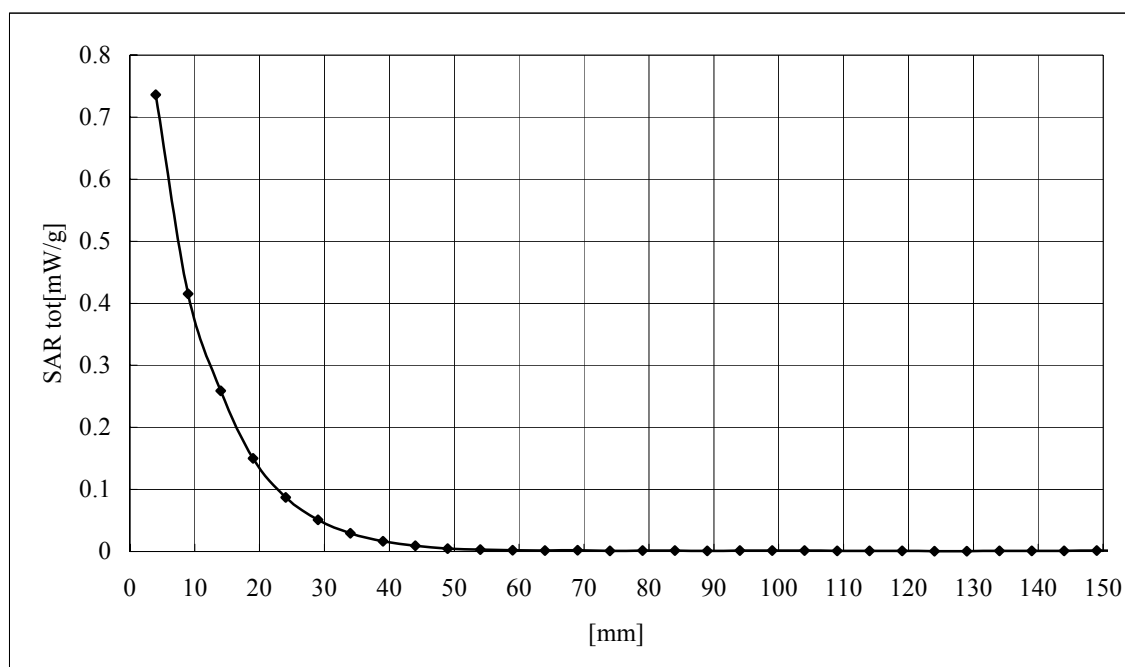
Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

Electronics: DAE3 Sn516; Calibrated: 2005/03/10

Phantom: SAM 1196

Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145



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IRF303JU / Body / Left Side ANT.1 / 2462MHz / 11b CCK (11Mbps)

Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.96$ mho/m; $\epsilon_r = 50.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

Electronics: DAE3 Sn516; Calibrated: 2005/03/10

Phantom: SAM 1196

Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 1.43 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.9 V/m; Power Drift = -0.111 dB

Peak SAR (extrapolated) = 2.92 W/kg

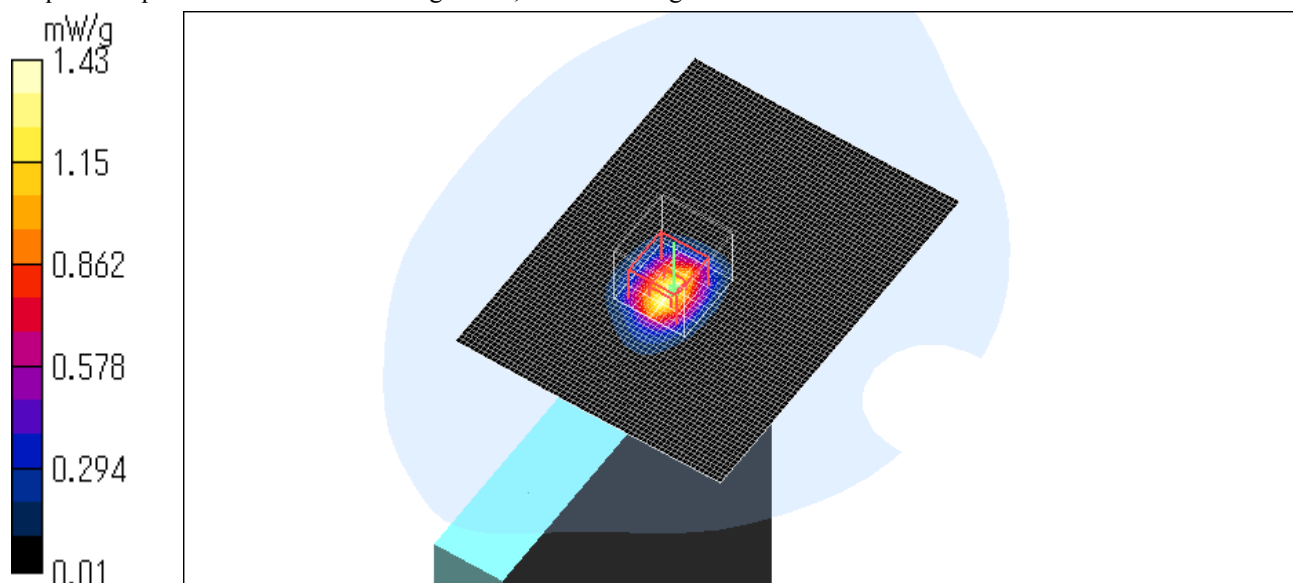
SAR(1 g) = 1.32 mW/g; SAR(10 g) = 0.612 mW/g

Maximum value of SAR (measured) = 1.43 mW/g

Test Date = 06/29/05

Ambient Temperature = 25.0 degree.C.

Liquid Temperature = Before 24.7 degree.C. , After 24.7 degree.C.



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IRF303JU / Body / Left Side ANT.1 / 2437MHz / 11g BPSK(6Mbps)

Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.96$ mho/m; $\epsilon_r = 50.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

Electronics: DAE3 Sn516; Calibrated: 2005/03/10

Phantom: SAM 1196

Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.697 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.8 V/m; Power Drift = -0.154 dB

Peak SAR (extrapolated) = 1.44 W/kg

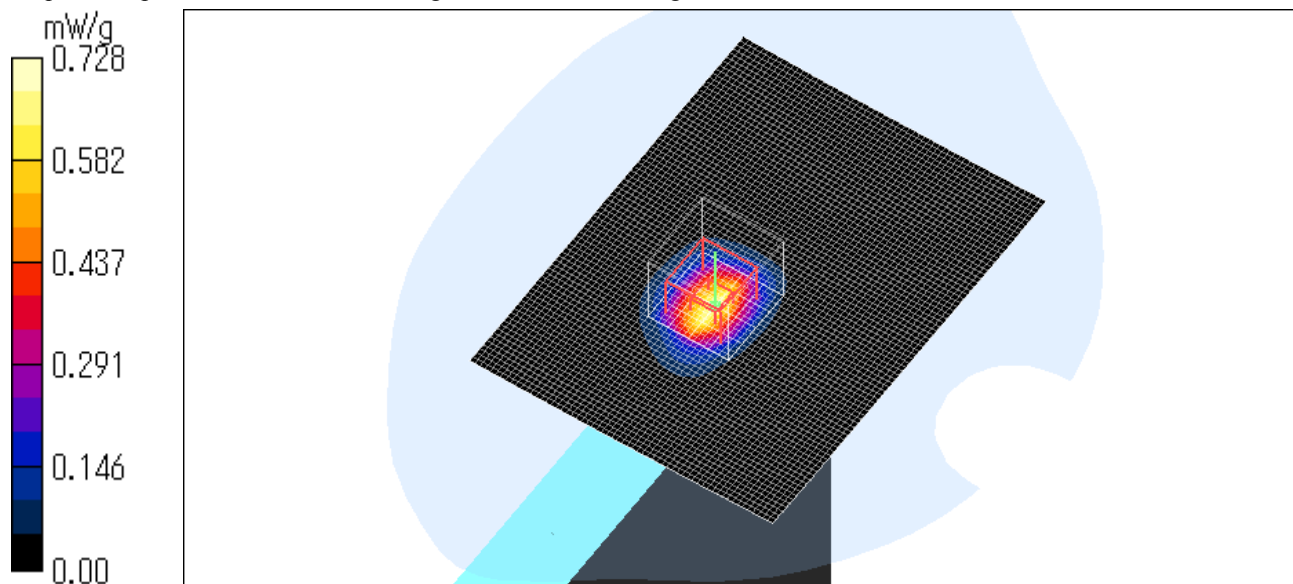
SAR(1 g) = 0.660 mW/g; SAR(10 g) = 0.307 mW/g

Maximum value of SAR (measured) = 0.728 mW/g

Test Date = 06/29/05

Ambient Temperature = 25.0 degree.C.

Liquid Temperature = Before 24.5 degree.C. , After 24.5 degree.C.



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IRF303JU / Body / Left Side ANT.1 / 2437MHz / 11g QPSK(12Mbps)

Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.96$ mho/m; $\epsilon_r = 50.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

Electronics: DAE3 Sn516; Calibrated: 2005/03/10

Phantom: SAM 1196

Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.761 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.9 V/m; Power Drift = -0.045 dB

Peak SAR (extrapolated) = 1.50 W/kg

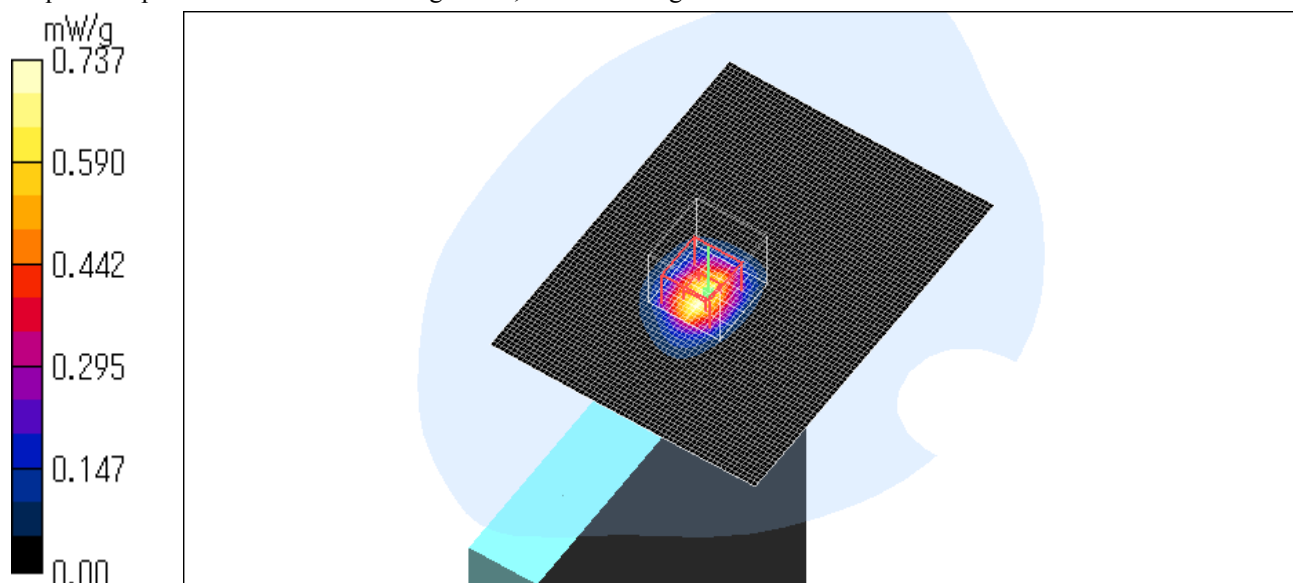
SAR(1 g) = 0.686 mW/g; SAR(10 g) = 0.320 mW/g

Maximum value of SAR (measured) = 0.737 mW/g

Test Date = 06/29/05

Ambient Temperature = 25.0 degree.C.

Liquid Temperature = Before 24.5 degree.C. , After 24.5 degree.C.



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IRF303JU / Body / Left Side ANT.1 / 2437MHz / 16QAM (36Mbps)

Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.96$ mho/m; $\epsilon_r = 50.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

Electronics: DAE3 Sn516; Calibrated: 2005/03/10

Phantom: SAM 1196

Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.703 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.8 V/m; Power Drift = -0.018 dB

Peak SAR (extrapolated) = 1.49 W/kg

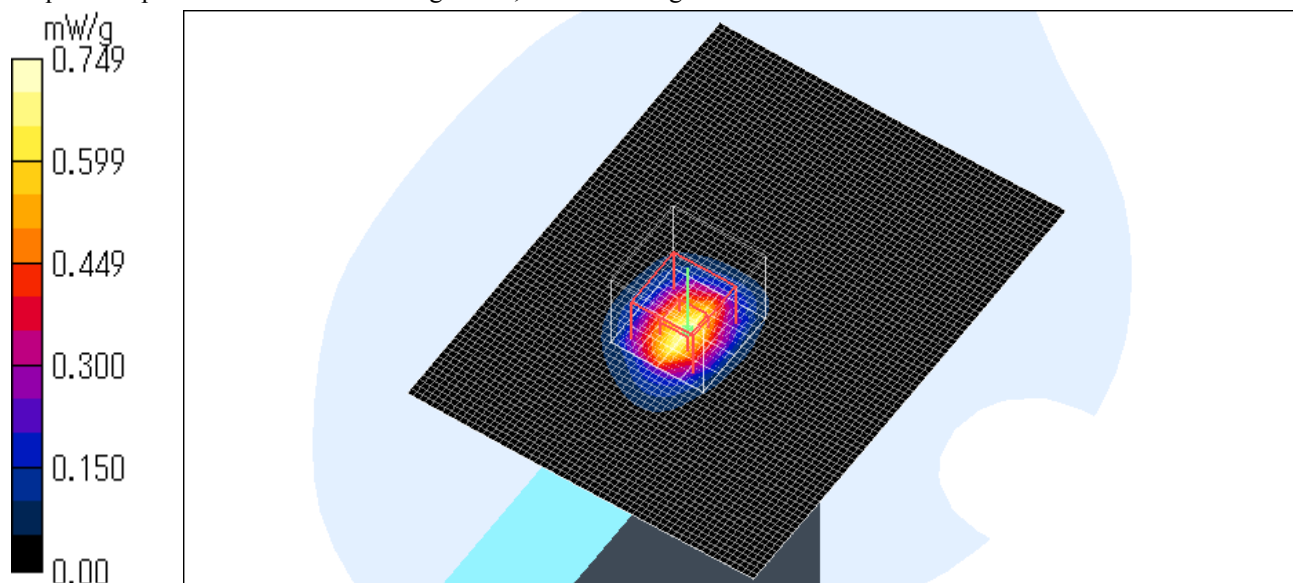
SAR(1 g) = 0.682 mW/g; SAR(10 g) = 0.317 mW/g

Maximum value of SAR (measured) = 0.749 mW/g

Test Date = 06/29/05

Ambient Temperature = 25.0 degree.C.

Liquid Temperature = Before 24.5 degree.C. , After 24.5 degree.C.



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IRF303JU / Body / Left Side ANT.1 / 2437MHz / 64QAM(54Mbps)

Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.96$ mho/m; $\epsilon_r = 50.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

Electronics: DAE3 Sn516; Calibrated: 2005/03/10

Phantom: SAM 1196

Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.698 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.7 V/m; Power Drift = 0.129 dB

Peak SAR (extrapolated) = 1.48 W/kg

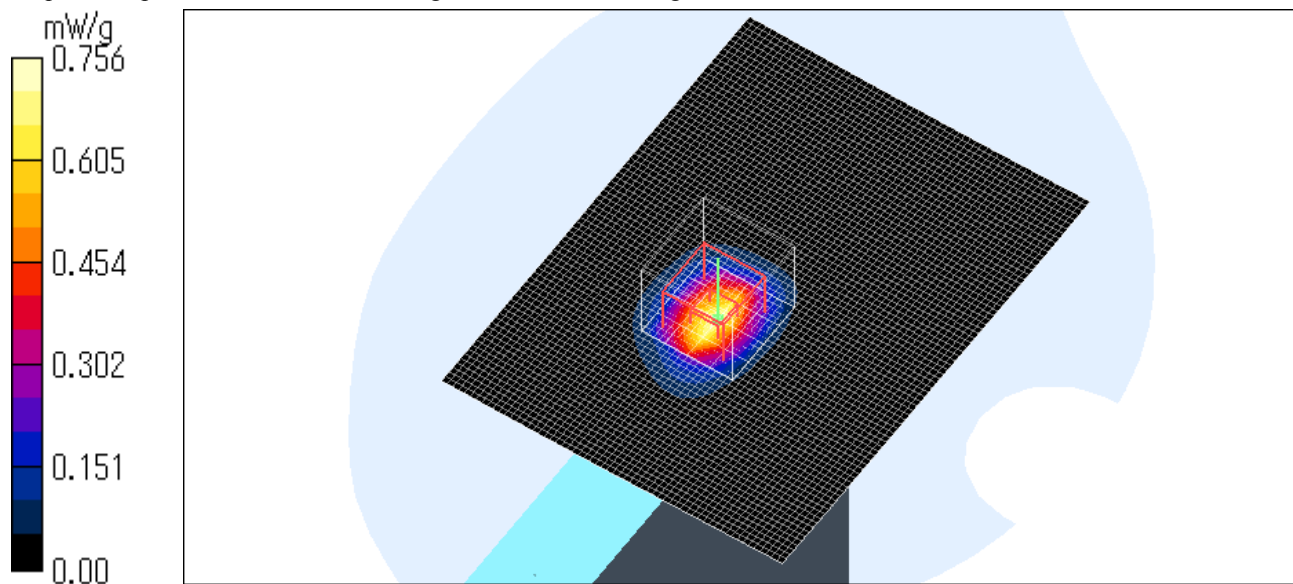
SAR(1 g) = 0.681 mW/g; SAR(10 g) = 0.316 mW/g

Maximum value of SAR (measured) = 0.756 mW/g

Test Date = 06/29/05

Ambient Temperature = 25.0 degree.C.

Liquid Temperature = Before 24.5 degree.C. , After 24.5 degree.C.



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IRF303JU / Body / Left Front ANT.1 / 2437MHz / 11g QPSK(12Mbps)

Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.96$ mho/m; $\epsilon_r = 50.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

Electronics: DAE3 Sn516; Calibrated: 2005/03/10

Phantom: SAM 1196

Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.249 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.62 V/m; Power Drift = -0.133 dB

Peak SAR (extrapolated) = 0.399 W/kg

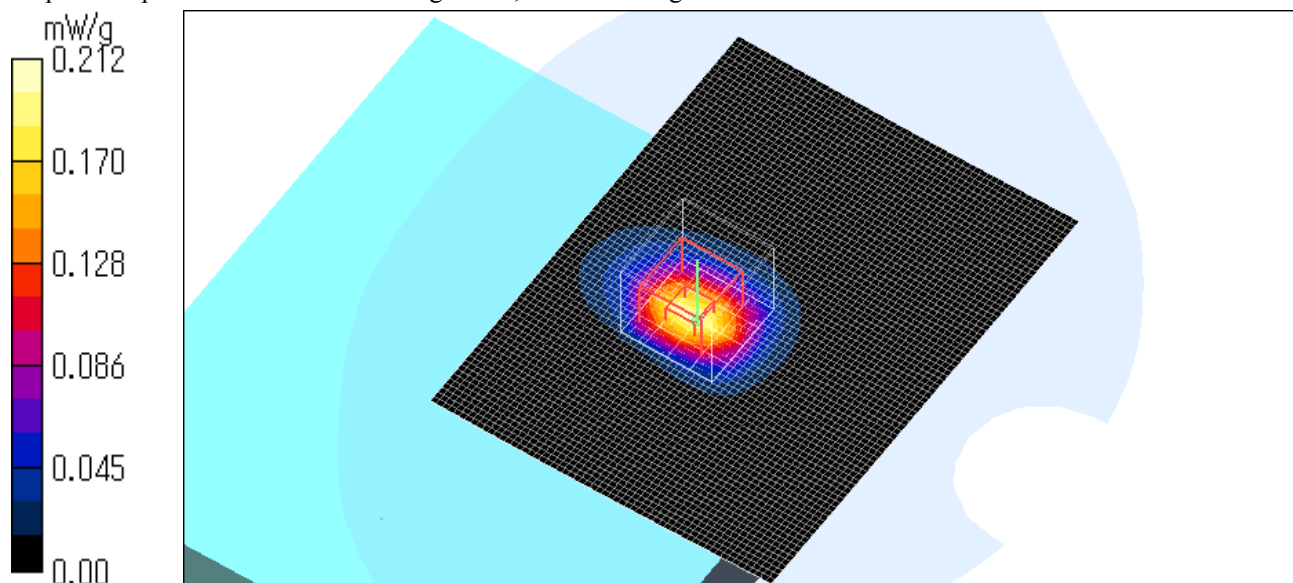
SAR(1 g) = 0.197 mW/g; SAR(10 g) = 0.100 mW/g

Maximum value of SAR (measured) = 0.212 mW/g

Test Date = 06/29/05

Ambient Temperature = 25.0 degree.C.

Liquid Temperature = Before 24.6 degree.C. , After 24.6 degree.C.



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IRF303JU / Body / Left Back ANT.1 / 2437MHz / 11g QPSK(12Mbps)

Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.96$ mho/m; $\epsilon_r = 50.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

Electronics: DAE3 Sn516; Calibrated: 2005/03/10

Phantom: SAM 1196

Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.027 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.55 V/m; Power Drift = -0.311 dB

Peak SAR (extrapolated) = 0.047 W/kg

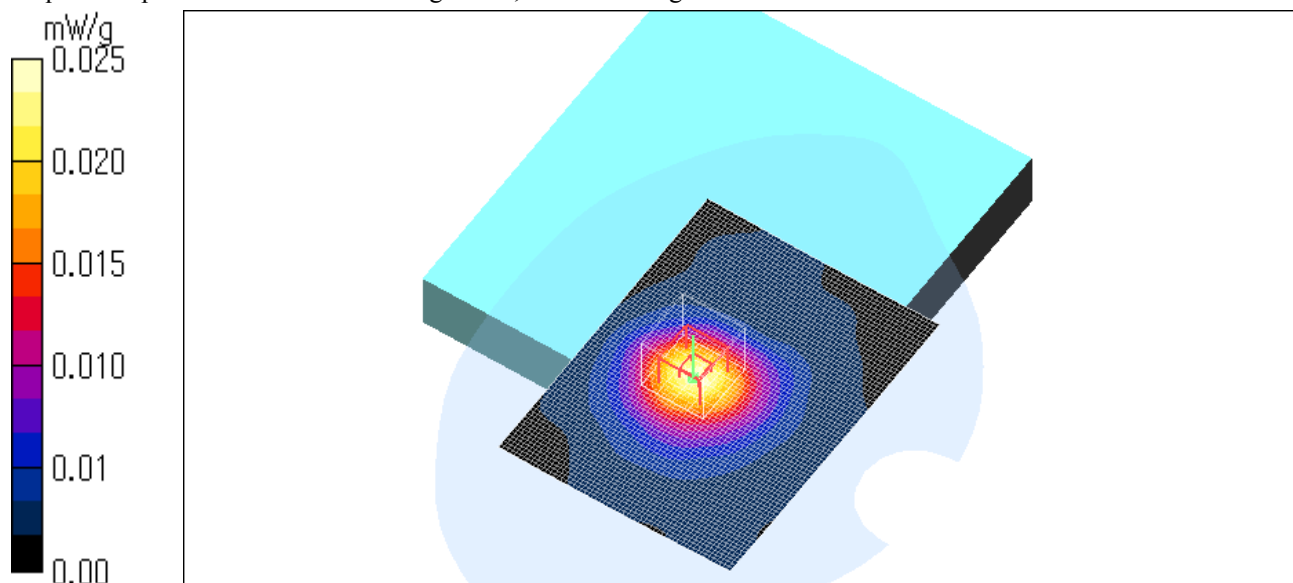
SAR(1 g) = 0.024 mW/g; SAR(10 g) = 0.014 mW/g

Maximum value of SAR (measured) = 0.025 mW/g

Test Date = 06/29/05

Ambient Temperature = 25.0 degree.C.

Liquid Temperature = Before 24.5 degree.C. , After 24.5 degree.C.



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IRF303JU / Body / Left Top ANT.1 / 2437MHz / 11g QPSK(12Mbps)

Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.96$ mho/m; $\epsilon_r = 50.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

Electronics: DAE3 Sn516; Calibrated: 2005/03/10

Phantom: SAM 1196

Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.011 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.52 V/m; Power Drift = -0.301 dB

Peak SAR (extrapolated) = 0.016 W/kg

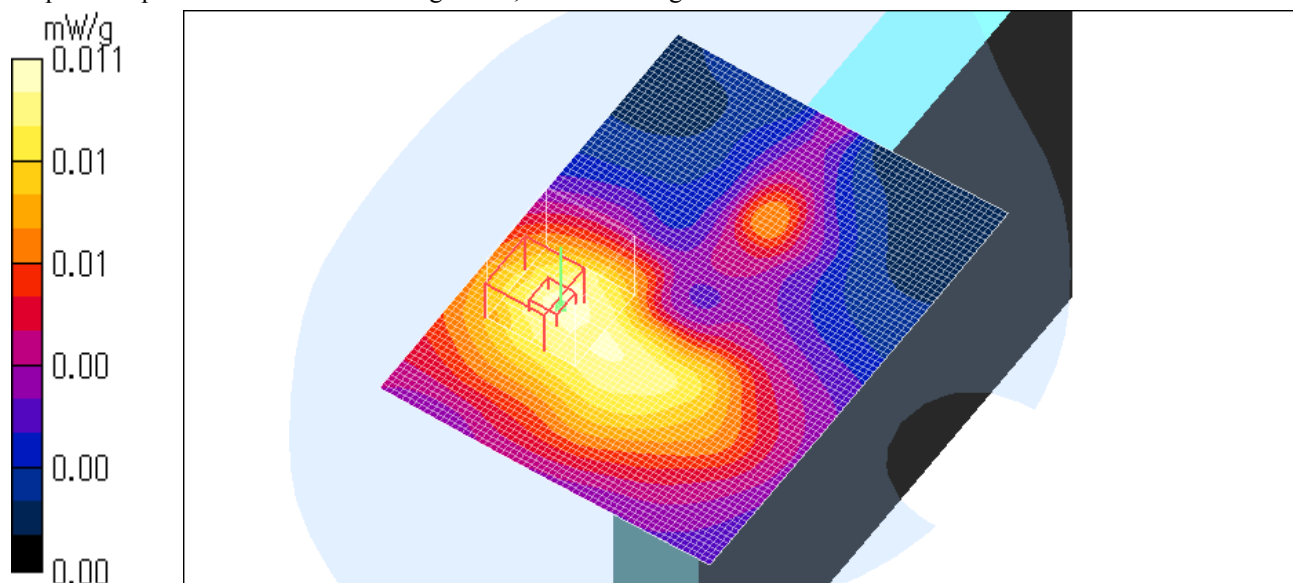
SAR(1 g) = 0.00973 mW/g; SAR(10 g) = 0.00654 mW/g

Maximum value of SAR (measured) = 0.011 mW/g

Test Date = 06/29/05

Ambient Temperature = 25.0 degree.C.

Liquid Temperature = Before 24.4 degree.C. , After 24.4 degree.C.



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IRF303JU / Body / Left Side ANT.1 / 2412MHz / 11g QPSK(12Mbps)

Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.96$ mho/m; $\epsilon_r = 50.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

Electronics: DAE3 Sn516; Calibrated: 2005/03/10

Phantom: SAM 1196

Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.844 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.0 V/m; Power Drift = -0.122 dB

Peak SAR (extrapolated) = 1.68 W/kg

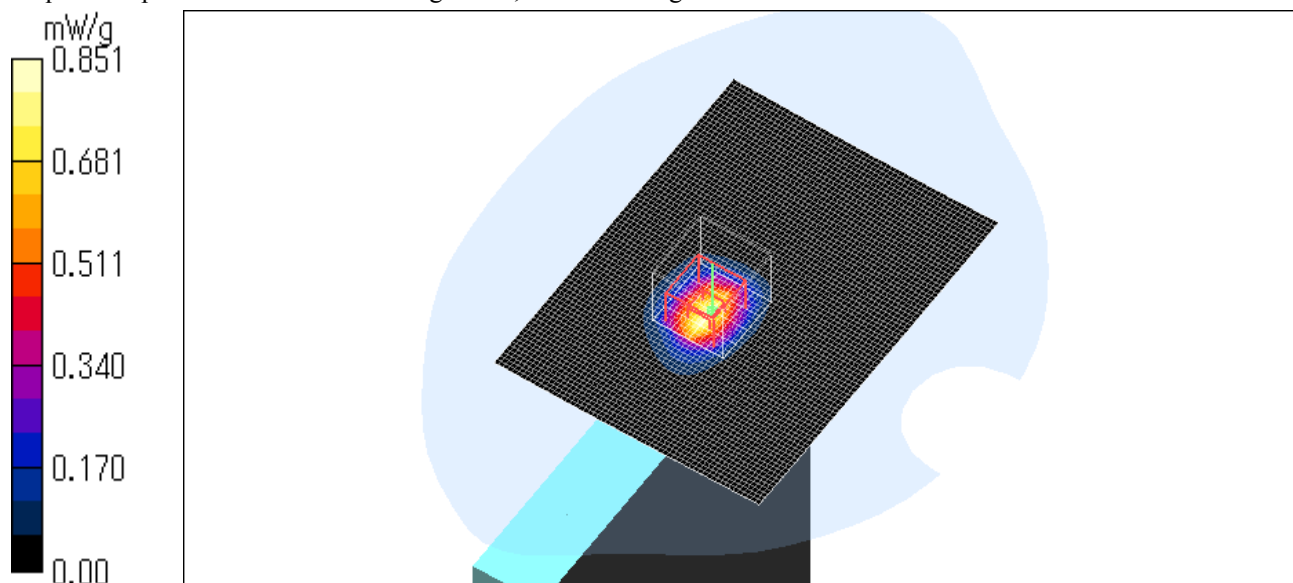
SAR(1 g) = 0.786 mW/g; SAR(10 g) = 0.368 mW/g

Maximum value of SAR (measured) = 0.851 mW/g

Test Date = 06/29/05

Ambient Temperature = 25.0 degree.C.

Liquid Temperature = Before 24.5 degree.C. , After 24.5 degree.C.



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IRF303JU / Body / Left Side ANT.1 / 2462MHz / 11g QPSK(12Mbps)

Duty Cycle: 1:1

Medium parameters used: $f = 2450 \text{ MHz}$; $\sigma = 1.96 \text{ mho/m}$; $\epsilon_r = 50.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

Electronics: DAE3 Sn516; Calibrated: 2005/03/10

Phantom: SAM 1196

Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (61x81x1): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$

Maximum value of SAR (interpolated) = 0.485 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 7.51 V/m; Power Drift = -0.136 dB

Peak SAR (extrapolated) = 0.960 W/kg

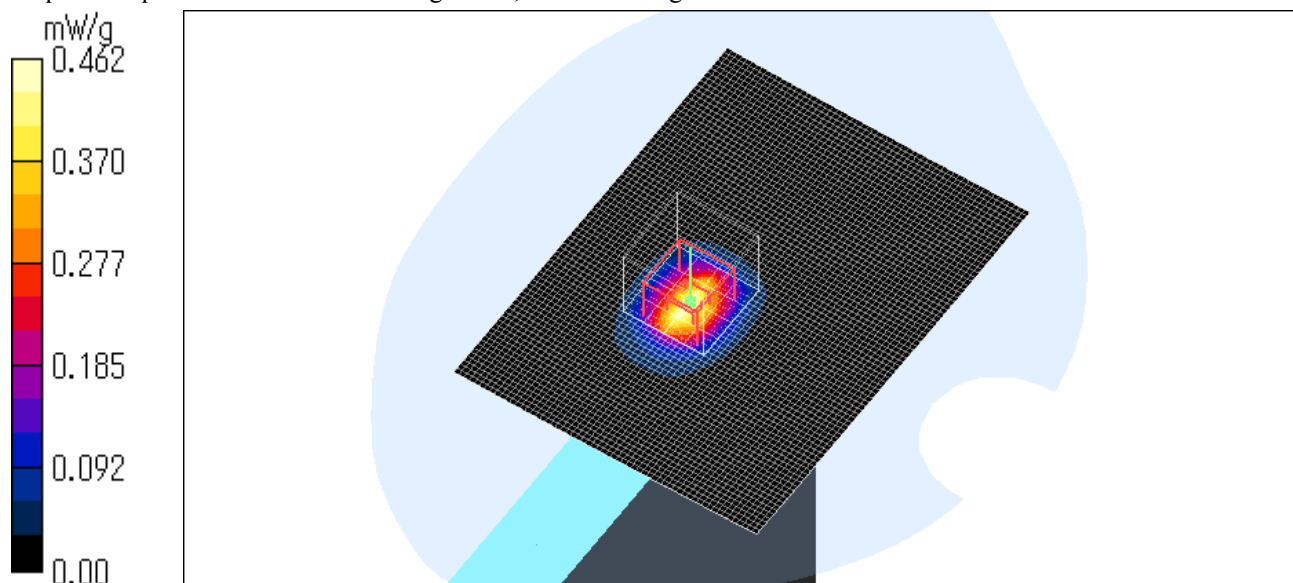
SAR(1 g) = 0.430 mW/g; SAR(10 g) = 0.199 mW/g

Maximum value of SAR (measured) = 0.462 mW/g

Test Date = 06/29/05

Ambient Temperature = 25.0 degree.C.

Liquid Temperature = Before 24.5 degree.C. , After 24.5 degree.C.



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IRF303JU / Body / Right Front ANT.2 / 2437MHz / 11b CCK (11Mbps)

Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.99$ mho/m; $\epsilon_r = 50.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

Electronics: DAE3 Sn516; Calibrated: 2005/03/10

Phantom: SAM 1196

Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.467 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.9 V/m; Power Drift = -0.252 dB

Peak SAR (extrapolated) = 0.784 W/kg

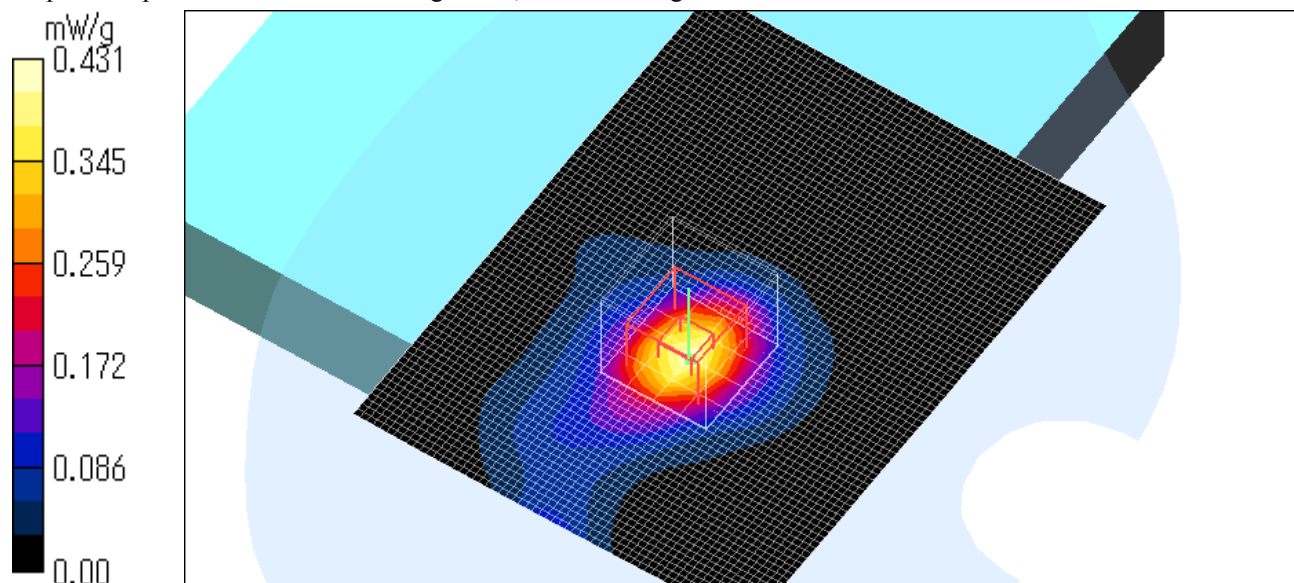
SAR(1 g) = 0.398 mW/g; SAR(10 g) = 0.209 mW/g

Maximum value of SAR (measured) = 0.431 mW/g

Test Date = 07/05/05

Ambient Temperature = 25.0 degree.C.

Liquid Temperature = Before 24.3 degree.C. , After 24.0 degree.C.



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IRF303JU / Body / Right side ANT.2 / 2437MHz / 11b CCK (11Mbps)

Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.99$ mho/m; $\epsilon_r = 50.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

Electronics: DAE3 Sn516; Calibrated: 2005/03/10

Phantom: SAM 1196

Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 1.13 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.2 V/m; Power Drift = -0.145 dB

Peak SAR (extrapolated) = 2.07 W/kg

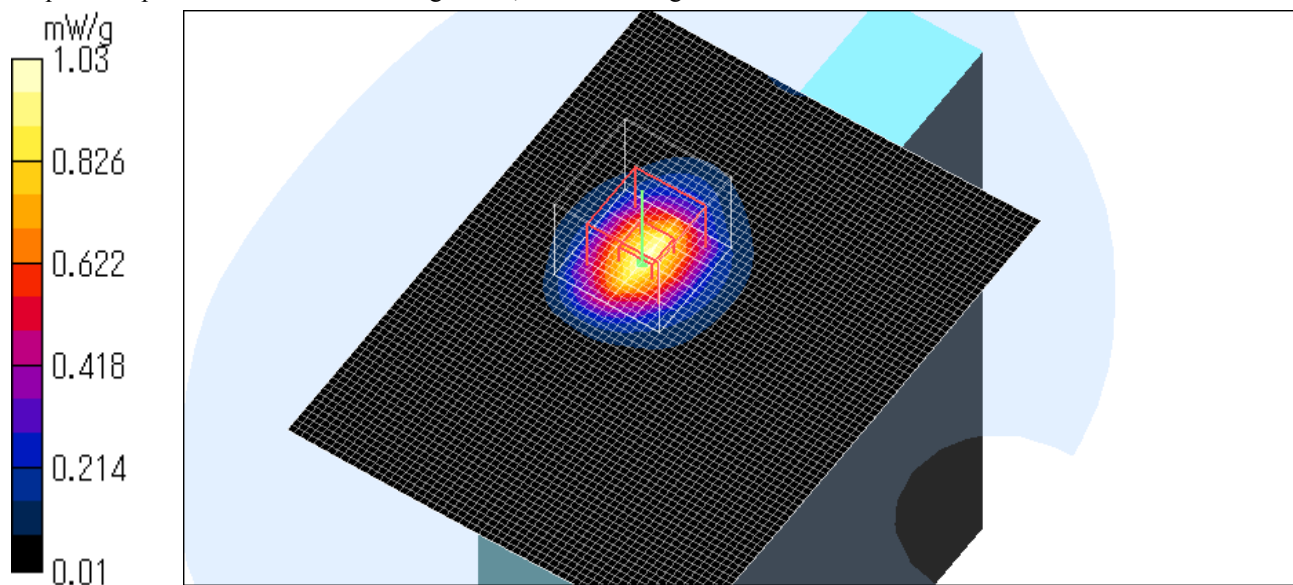
SAR(1 g) = 0.944 mW/g; SAR(10 g) = 0.452 mW/g

Maximum value of SAR (measured) = 0.103 mW/g

Test Date = 07/05/05

Ambient Temperature = 25.0 degree.C.

Liquid Temperature = Before 24.2 degree.C. , After 24.2 degree.C.



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IRF303JU / Body / Right side ANT.2 / 2412MHz / 11b CCK (11Mbps)

Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.99$ mho/m; $\epsilon_r = 50.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

Electronics: DAE3 Sn516; Calibrated: 2005/03/10

Phantom: SAM 1196

Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 1.05 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.2 V/m; Power Drift = -0.27 dB

Peak SAR (extrapolated) = 2.07 W/kg

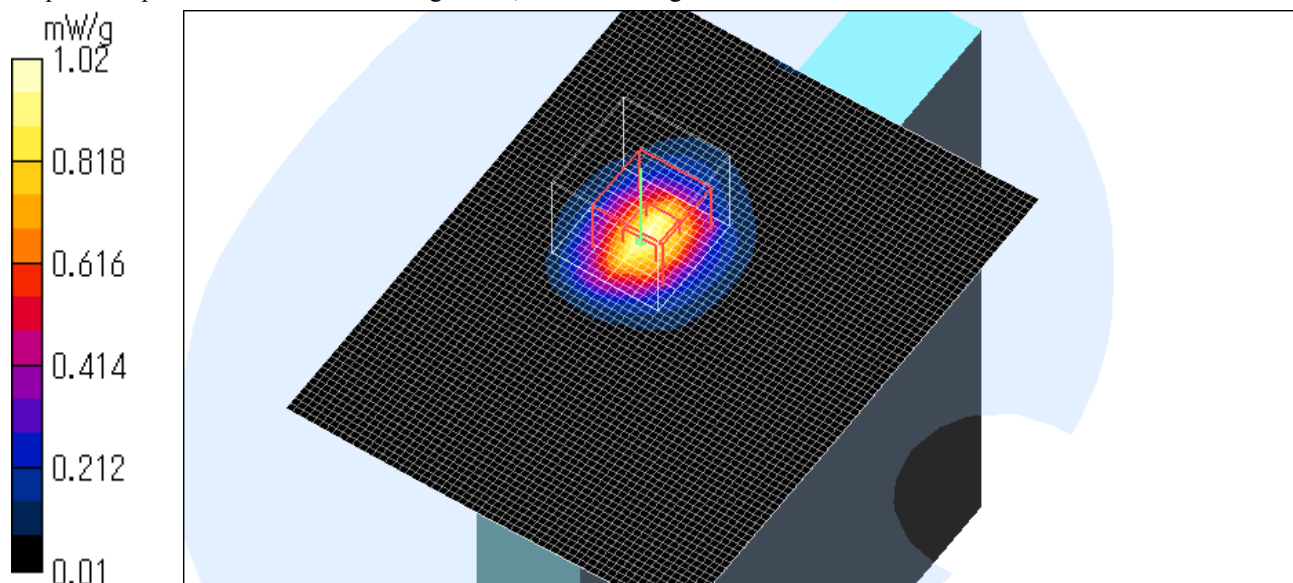
SAR(1 g) = 0.943 mW/g; SAR(10 g) = 0.451 mW/g

Maximum value of SAR (measured) = 1.02 mW/g

Test Date = 07/05/05

Ambient Temperature = 25.0 degree.C.

Liquid Temperature = Before 24.2 degree.C. , After 24.1 degree.C.



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IRF303JU / Body / Right side ANT.2 / 2462MHz / 11b CCK (11Mbps)

Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.99$ mho/m; $\epsilon_r = 50.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

Electronics: DAE3 Sn516; Calibrated: 2005/03/10

Phantom: SAM 1196

Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.954 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.3 V/m; Power Drift = -0.209 dB

Peak SAR (extrapolated) = 2.07 W/kg

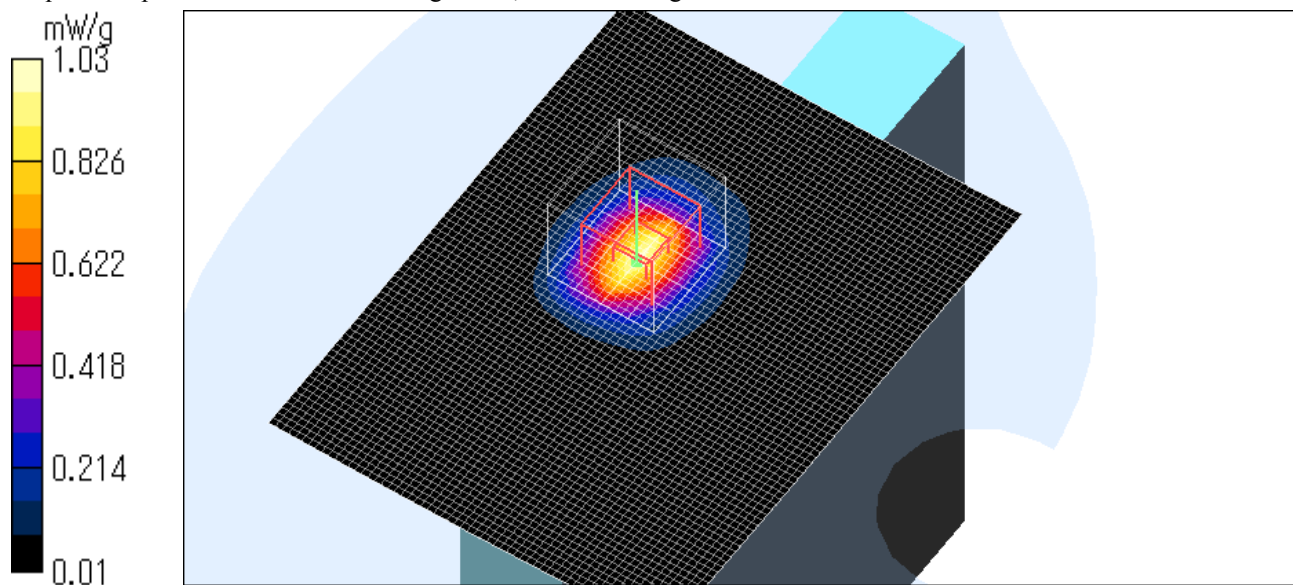
SAR(1 g) = 0.933 mW/g; SAR(10 g) = 0.444 mW/g

Maximum value of SAR (measured) = 1.03 mW/g

Test Date = 07/05/05

Ambient Temperature = 25.0 degree.C.

Liquid Temperature = Before 24.1 degree.C. , After 24.2 degree.C.



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IRF303JU / Body / Right side ANT.2 / 2437MHz / 11g BPSK (6Mbps)

Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.99$ mho/m; $\epsilon_r = 50.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

Electronics: DAE3 Sn516; Calibrated: 2005/03/10

Phantom: SAM 1196

Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.318 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.29 V/m; Power Drift = -0.236 dB

Peak SAR (extrapolated) = 0.686 W/kg

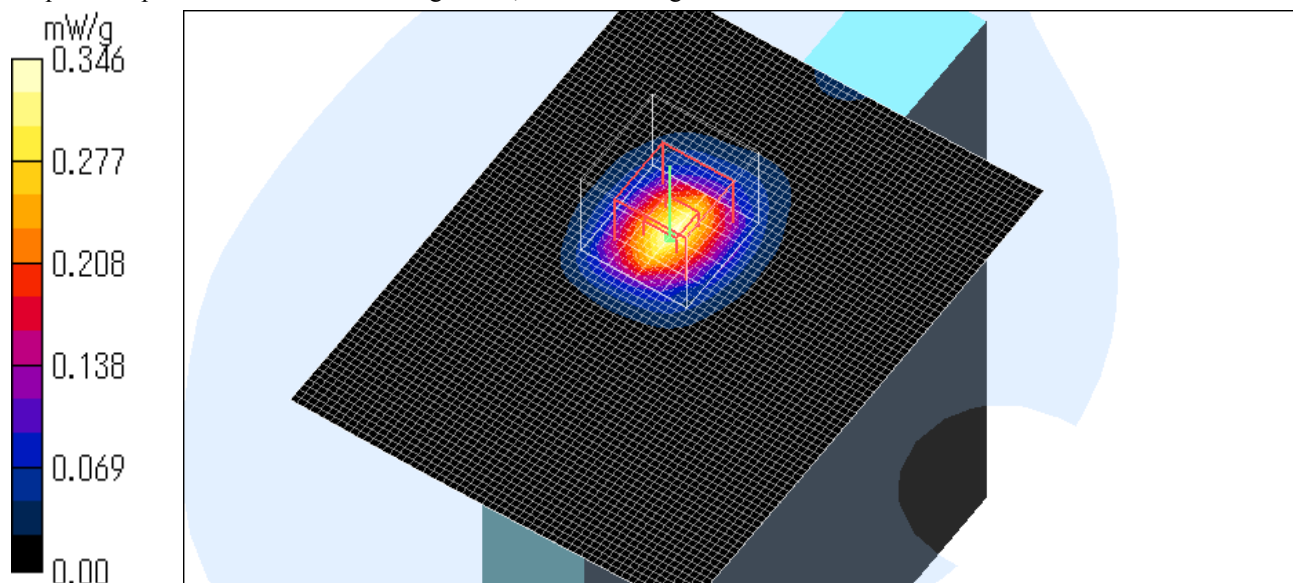
SAR(1 g) = 0.314 mW/g; SAR(10 g) = 0.150 mW/g

Maximum value of SAR (measured) = 0.346 mW/g

Test Date = 07/05/05

Ambient Temperature = 25.0 degree.C.

Liquid Temperature = Before 24.3 degree.C. , After 24.3 degree.C.



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IRF303JU / Body / Right side ANT.2 / 2437MHz / 11g QPSK (18Mbps)

Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.99$ mho/m; $\epsilon_r = 50.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

Electronics: DAE3 Sn516; Calibrated: 2005/03/10

Phantom: SAM 1196

Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.463 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.76 V/m; Power Drift = -0.242 dB

Peak SAR (extrapolated) = 1.000 W/kg

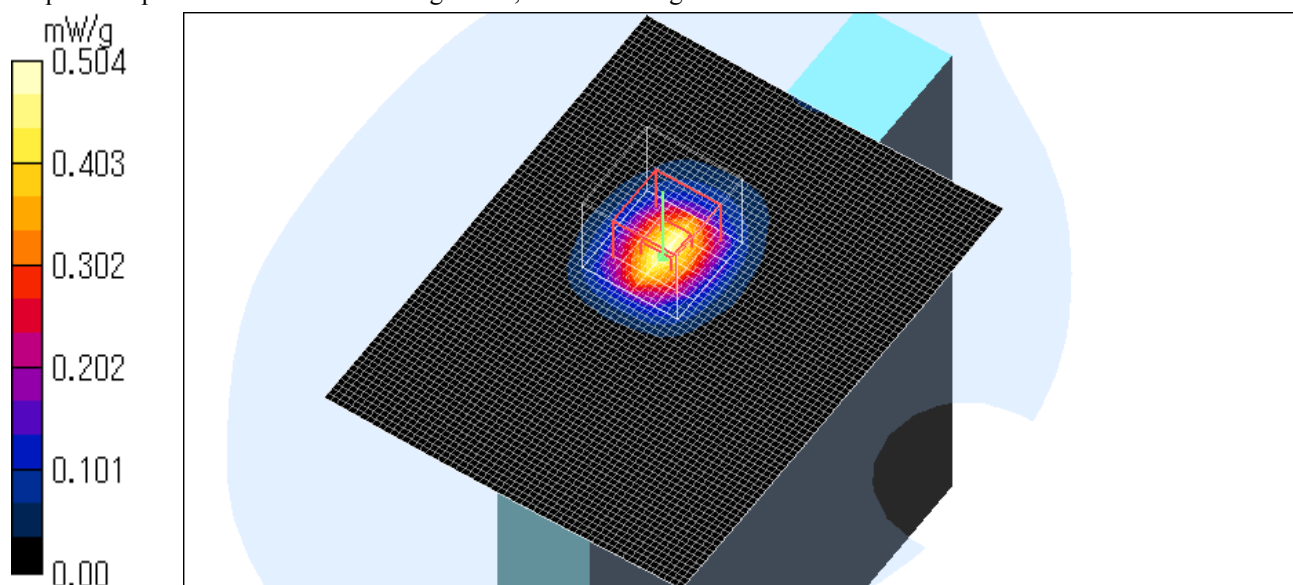
SAR(1 g) = 0.458 mW/g; SAR(10 g) = 0.219 mW/g

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

Test Date = 07/05/05

Ambient Temperature = 25.0 degree.C.

Liquid Temperature = Before 24.4 degree.C. , After 24.5 degree.C.



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IRF303JU / Body / Right side ANT.2 / 2437MHz / 11g 16QAM (36Mbps)

Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.99$ mho/m; $\epsilon_r = 50.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

Electronics: DAE3 Sn516; Calibrated: 2005/03/10

Phantom: SAM 1196

Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

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

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.85 V/m; Power Drift = -0.260 dB

Peak SAR (extrapolated) = 0.755 W/kg

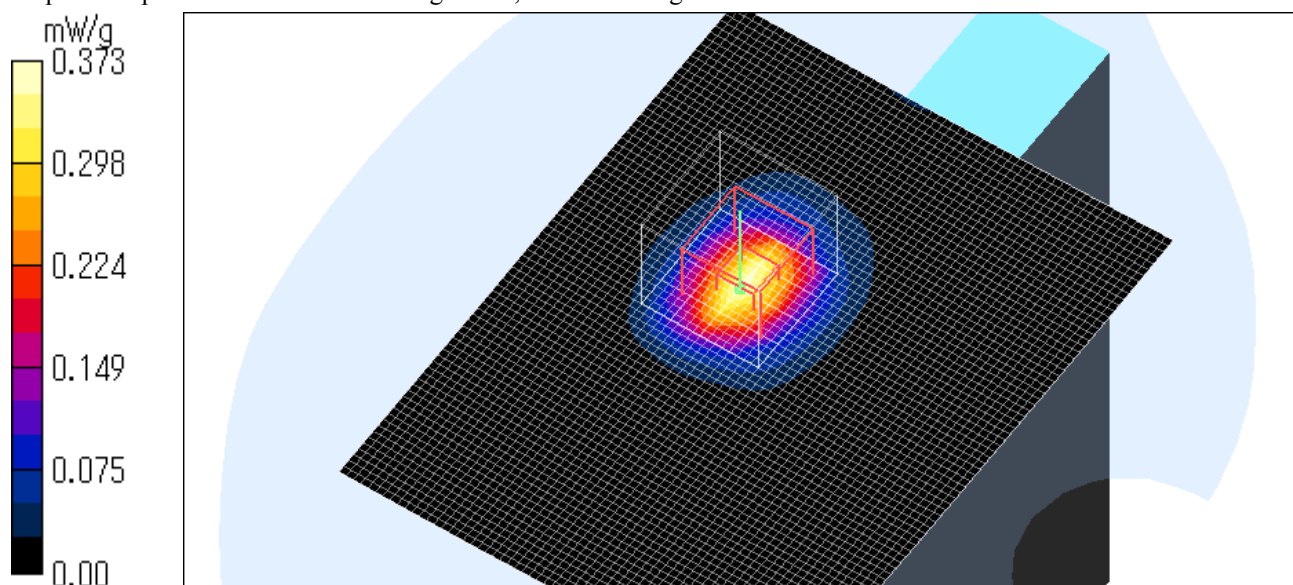
SAR(1 g) = 0.343 mW/g; SAR(10 g) = 0.164 mW/g

Maximum value of SAR (measured) = 0.373 mW/g

Test Date = 07/05/05

Ambient Temperature = 25.0 degree.C.

Liquid Temperature = Before 24.2 degree.C. , After 24.2 degree.C.



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IRF303JU / Body / Right side ANT.2 / 2437MHz / 11g 64QAM (54Mbps)

Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.99$ mho/m; $\epsilon_r = 50.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

Electronics: DAE3 Sn516; Calibrated: 2005/03/10

Phantom: SAM 1196

Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.338 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.56 V/m; Power Drift = -0.208 dB

Peak SAR (extrapolated) = 0.719 W/kg

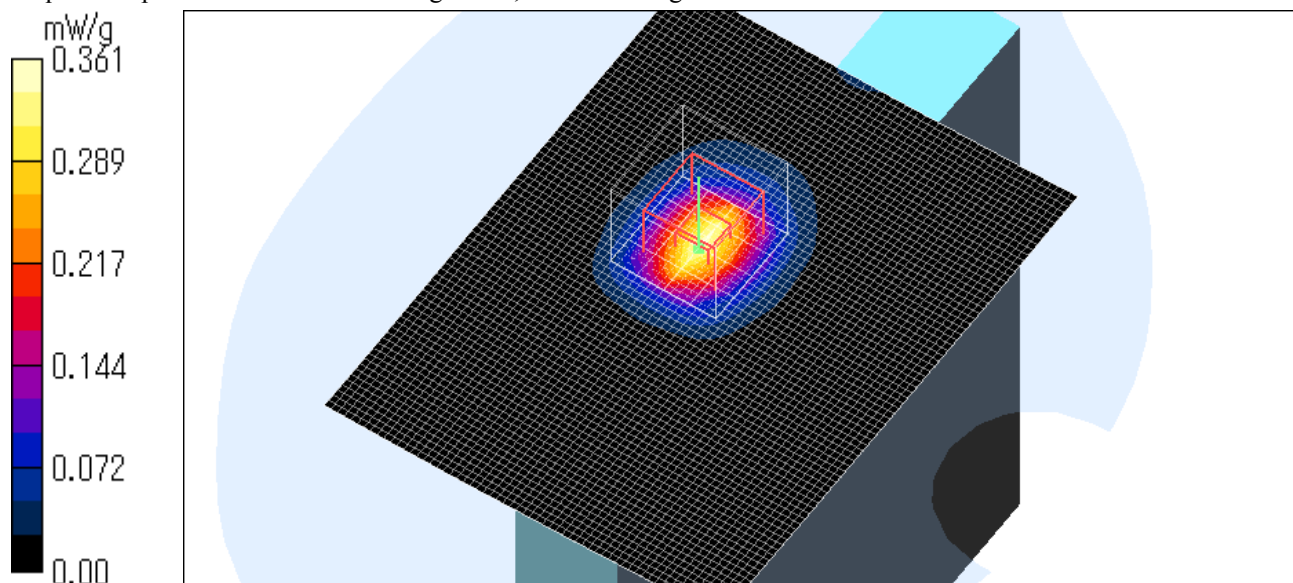
SAR(1 g) = 0.329 mW/g; SAR(10 g) = 0.157 mW/g

Maximum value of SAR (measured) = 0.361 mW/g

Test Date = 07/05/05

Ambient Temperature = 25.0 degree.C.

Liquid Temperature = Before 24.2 degree.C. , After 24.2 degree.C.



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IRF303JU / Body / Right side ANT.2 / 2412MHz / 11g QPSK (18Mbps)

Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.99$ mho/m; $\epsilon_r = 50.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

Electronics: DAE3 Sn516; Calibrated: 2005/03/10

Phantom: SAM 1196

Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.415 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.60 V/m; Power Drift = -0.244 dB

Peak SAR (extrapolated) = 0.871 W/kg

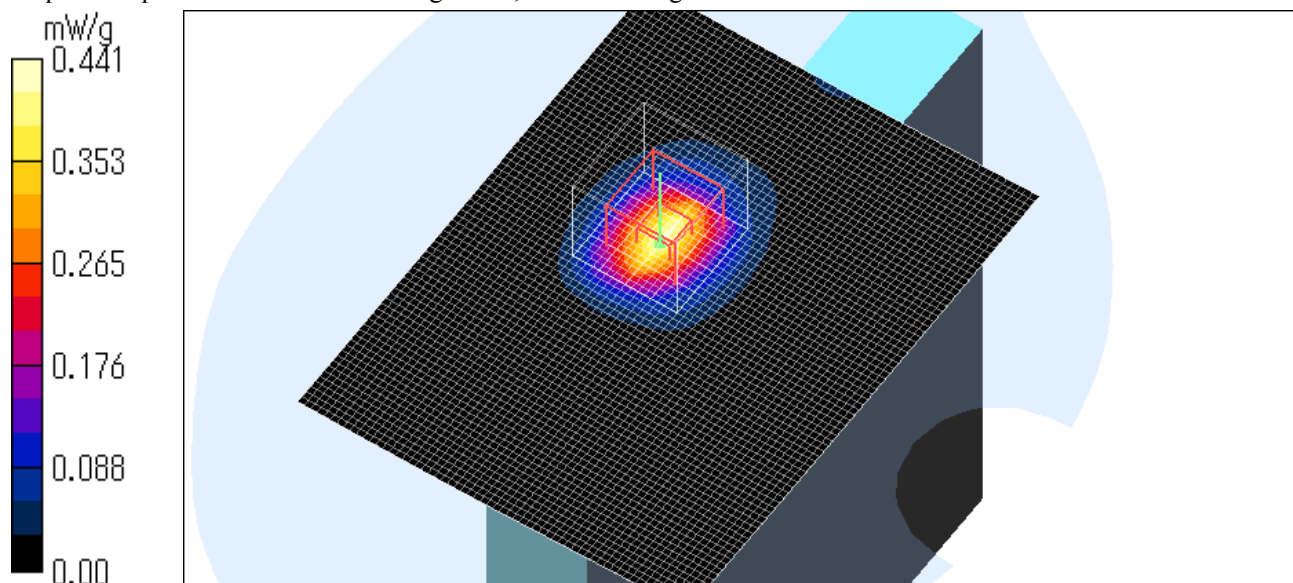
SAR(1 g) = 0.402 mW/g; SAR(10 g) = 0.193 mW/g

Maximum value of SAR (measured) = 0.441 mW/g

Test Date = 07/05/05

Ambient Temperature = 25.0 degree.C.

Liquid Temperature = Before 24.3 degree.C. , After 24.3 degree.C.



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IRF303JU / Body / Right side ANT.2 / 2462MHz / 11g QPSK (18Mbps)

Duty Cycle: 1:1

Medium parameters used: $f = 2450 \text{ MHz}$; $\sigma = 1.99 \text{ mho/m}$; $\epsilon_r = 50.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

Electronics: DAE3 Sn516; Calibrated: 2005/03/10

Phantom: SAM 1196

Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (61x81x1): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$

Maximum value of SAR (interpolated) = 0.258 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 6.49 V/m; Power Drift = -0.267 dB

Peak SAR (extrapolated) = 0.546 W/kg

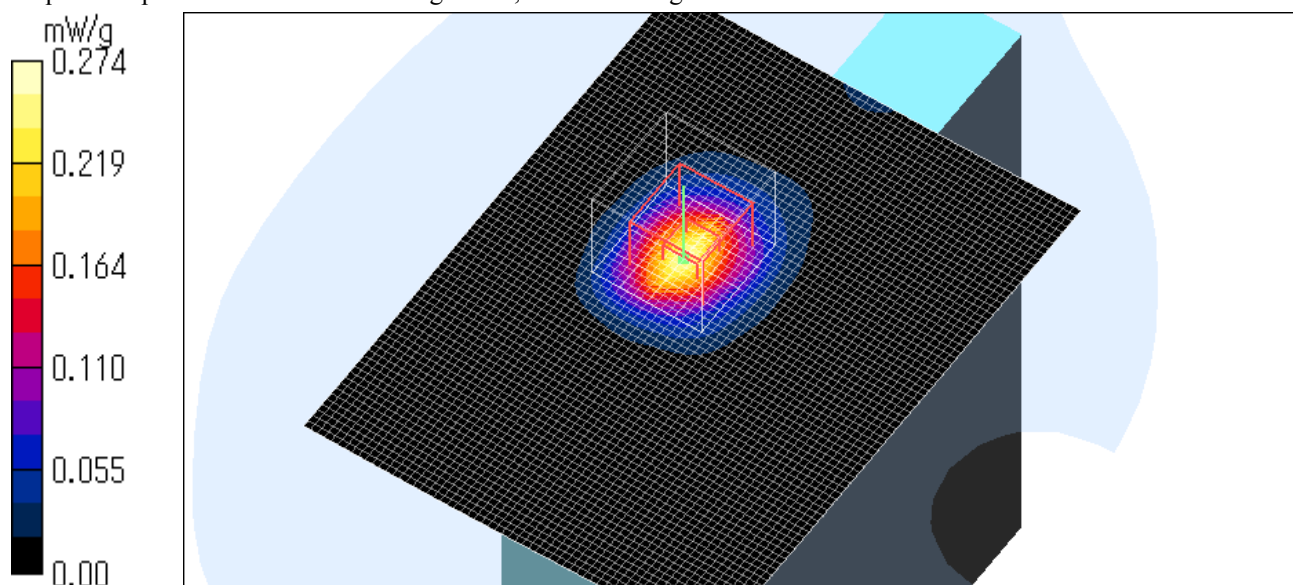
SAR(1 g) = 0.248 mW/g; SAR(10 g) = 0.118 mW/g

Maximum value of SAR (measured) = 0.274 mW/g

Test Date = 07/05/05

Ambient Temperature = 25.0 degree.C.

Liquid Temperature = Before 24.3 degree.C. , After 24.4 degree.C.



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APPENDIX 3: Validation Measurement data

System Validation / Dipole 2450 MHz / Forward Conducted Power : 250mW

Dipole 2450 MHz;

- Type: D2450V2; Serial: SN:765

Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.85$ mho/m; $\epsilon_r = 35.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1684; ConvF(4.39, 4.39, 4.39); Calibrated: 2004/09/02

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

Electronics: DAE3 Sn516; Calibrated: 2005/03/10

Phantom: SAM 1196

Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (51x51x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 21.3 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 96.3 V/m; Power Drift = -0.018 dB

Peak SAR (extrapolated) = 29.1 W/kg

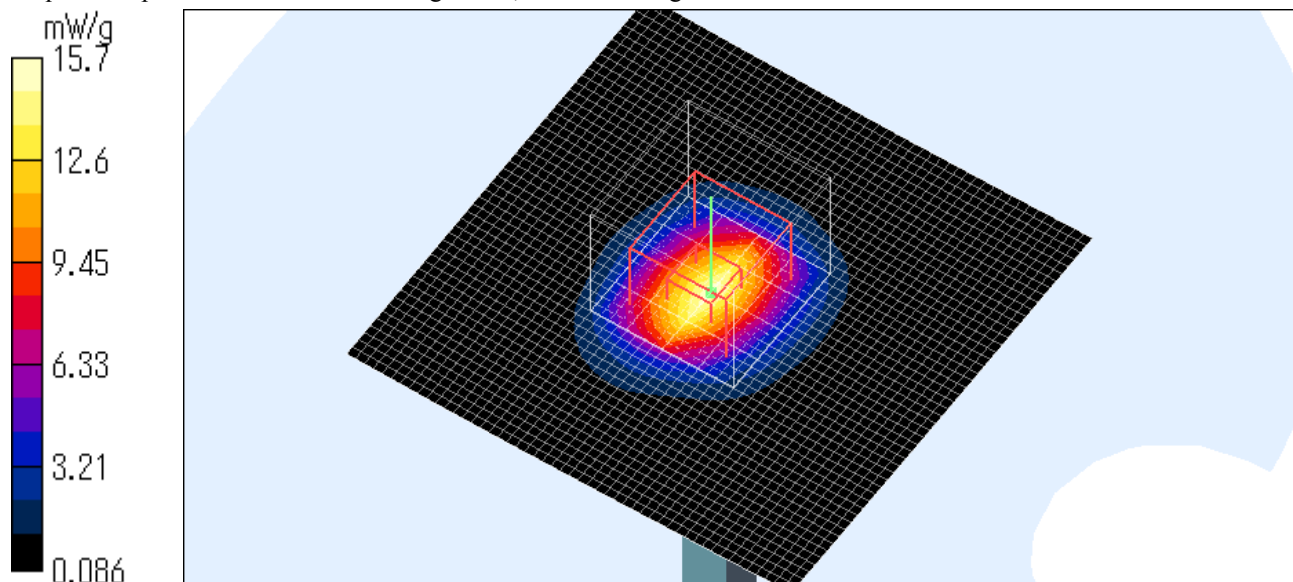
SAR(1 g) = 13.9 mW/g; SAR(10 g) = 6.43 mW/g

Maximum value of SAR (measured) = 15.7 mW/g

Test Date = 06/29/05

Ambient Temperature = 25.0 degree.C.

Liquid Temperature = Before 24.2 degree.C. , After 24.3 degree.C.



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System Validation / Dipole 2450 MHz / Forward Conducted Power : 250mW

Dipole 2450 MHz;

- Type: D2450V2; Serial: SN:765

Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 36.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1684; ConvF(4.39, 4.39, 4.39); Calibrated: 2004/09/02

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

Electronics: DAE3 Sn516; Calibrated: 2005/03/10

Phantom: SAM 1196

Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (51x51x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 21.7 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 95.8 V/m; Power Drift = 0.012 dB

Peak SAR (extrapolated) = 29.9 W/kg

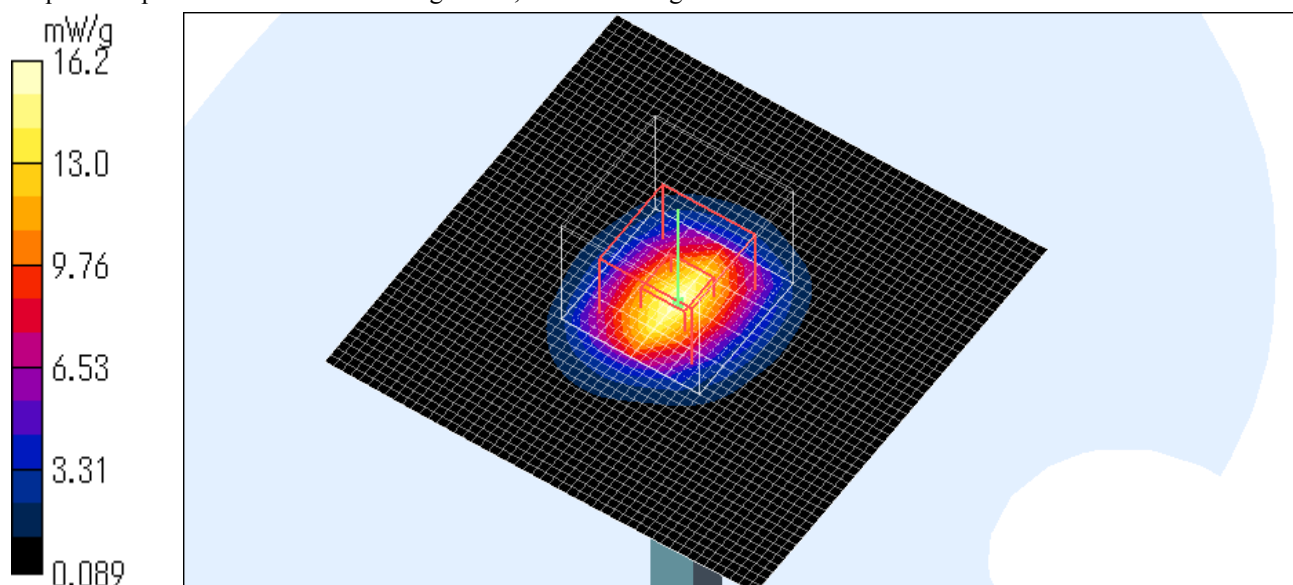
SAR(1 g) = 14.3 mW/g; SAR(10 g) = 6.61 mW/g

Maximum value of SAR (measured) = 16.2 mW/g

Test Date = 07/05/05

Ambient Temperature = 25.0 degree.C.

Liquid Temperature = Before 24.0 degree.C. , After 24.0 degree.C.



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