

APPENDIX 2 : SAR Measurement data

IRF303J / Body / Left Front (Antenna 1) / 11.b / 2437MHz

Crest factor: 1
Medium: M2450 ($\sigma = 2$ mho/m, $\epsilon_r = 48.6$, $\rho = 1000$ kg/m³)
Phantom section: Flat Section

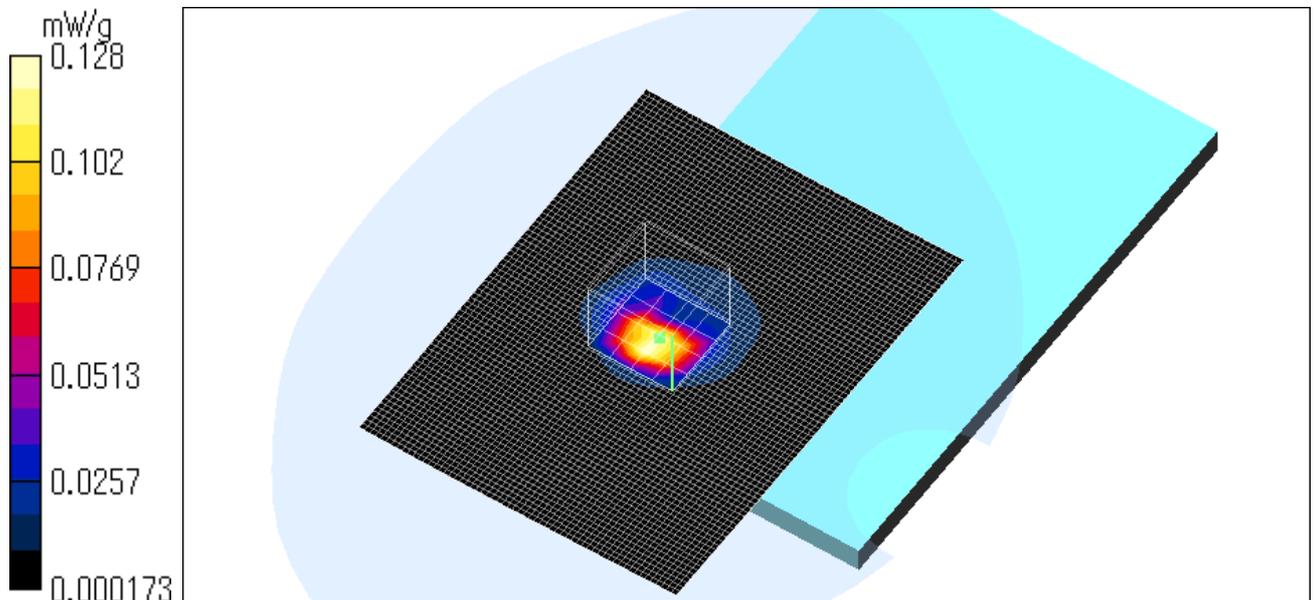
DASY4 Configuration:
- Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Phantom: SAM 1196
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR = 0.171 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Peak SAR (extrapolated) = 0.317 W/kg
SAR(1 g) = 0.128 mW/g; SAR(10 g) = 0.0484 mW/g
Maximum value of SAR = 0.128 mW/g

Reference Value = 9.86 V/m
Power Drift = -0.1 dB

Test Date = 01/17/04
Ambient Temperature = 25.0 degree.c
Liquid Temperature = Before 22.9 degree.C , After 22.9 degree.C



IRF303J / Body / Left Side (Antenna 1) / 11.b / 2437MHz

Crest factor: 1
Medium: M2450 ($\sigma = 2$ mho/m, $\epsilon_r = 48.6$, $\rho = 1000$ kg/m³)
Phantom section: Flat Section

DASY4 Configuration:

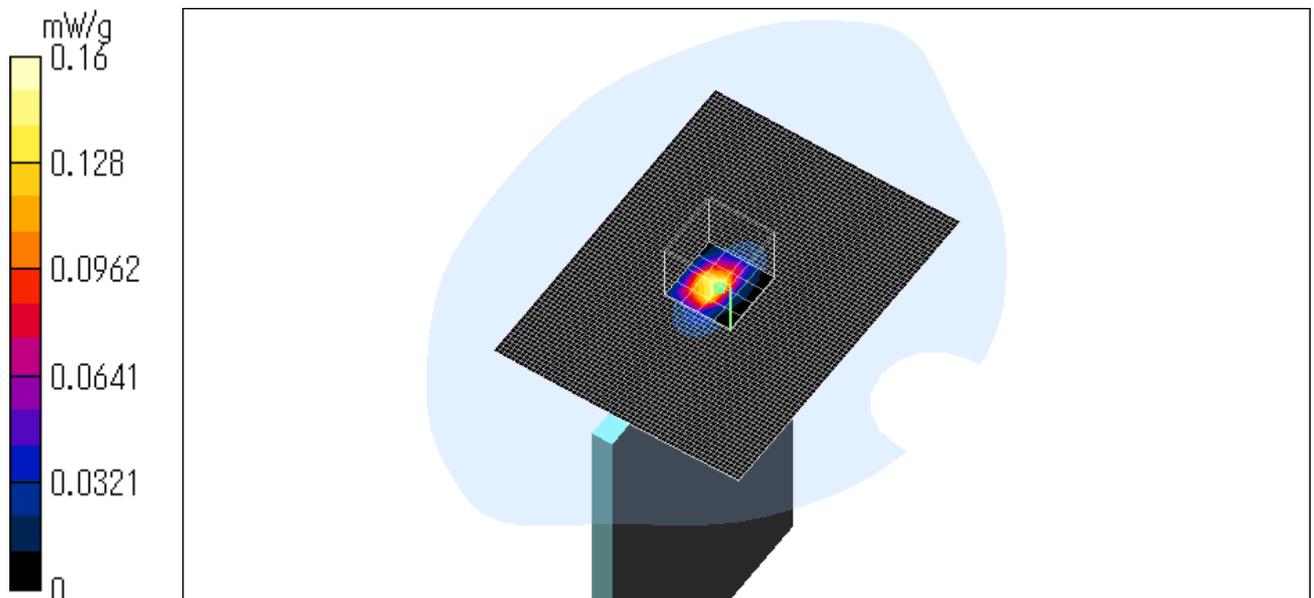
- Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Phantom: SAM 1196
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR = 0.115 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Peak SAR (extrapolated) = 0.435 W/kg
SAR(1 g) = 0.159 mW/g; SAR(10 g) = 0.052 mW/g
Maximum value of SAR = 0.16 mW/g

Reference Value = 7.88 V/m
Power Drift = -0.1 dB

Test Date = 01/17/04
Ambient Temperature = 25.0 degree.c
Liquid Temperature = Before 22.9 degree.C , After 22.9 degree.C



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IRF303J / Body / Left Back (Antenna 1) / 11.b / 2437MHz

Crest factor: 1
Medium: M2450 ($\sigma = 2$ mho/m, $\epsilon_r = 48.6$, $\rho = 1000$ kg/m³)
Phantom section: Flat Section

DASY4 Configuration:

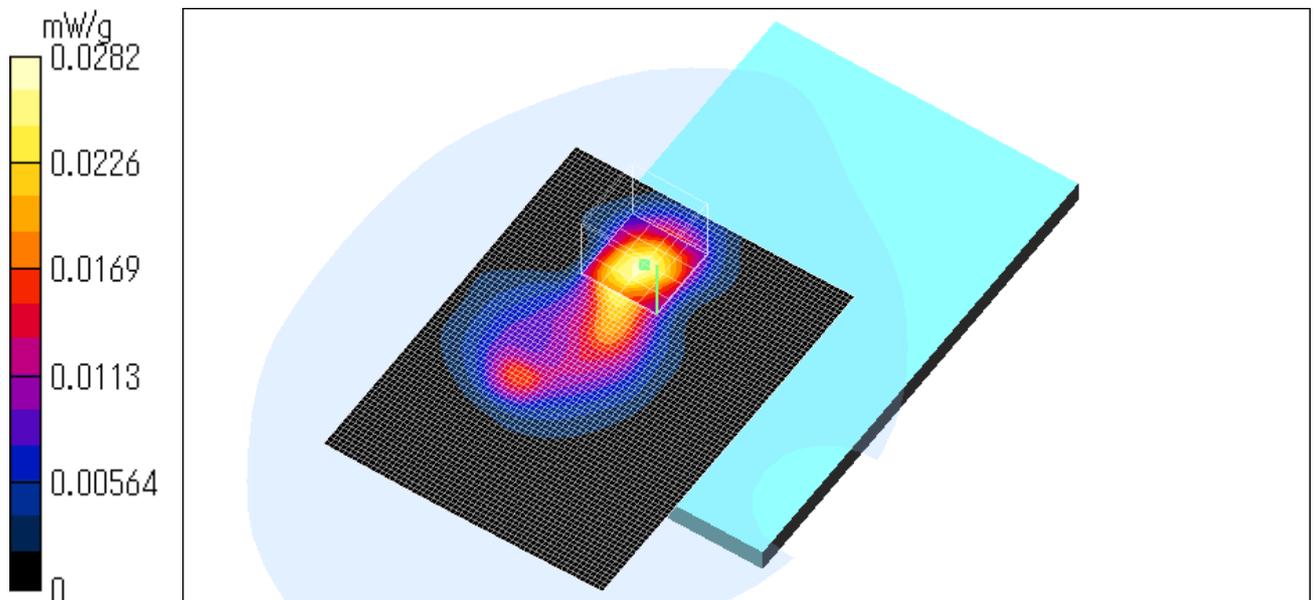
- Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Phantom: SAM 1196
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR = 0.0301 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Peak SAR (extrapolated) = 0.0463 W/kg
SAR(1 g) = 0.0261 mW/g; SAR(10 g) = 0.0137 mW/g
Maximum value of SAR = 0.0282 mW/g

Reference Value = 2.47 V/m
Power Drift = -0.2 dB

Test Date = 01/17/04
Ambient Temperature = 25.0 degree.c
Liquid Temperature = Before 22.9 degree.C , After 22.9 degree.C



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IRF303J / Body / Left Side (Antenna 1) / 11.b / 2412MHz

Crest factor: 1
Medium: M2450 ($\sigma = 2$ mho/m, $\epsilon_r = 48.6$, $\rho = 1000$ kg/m³)
Phantom section: Flat Section

DASY4 Configuration:

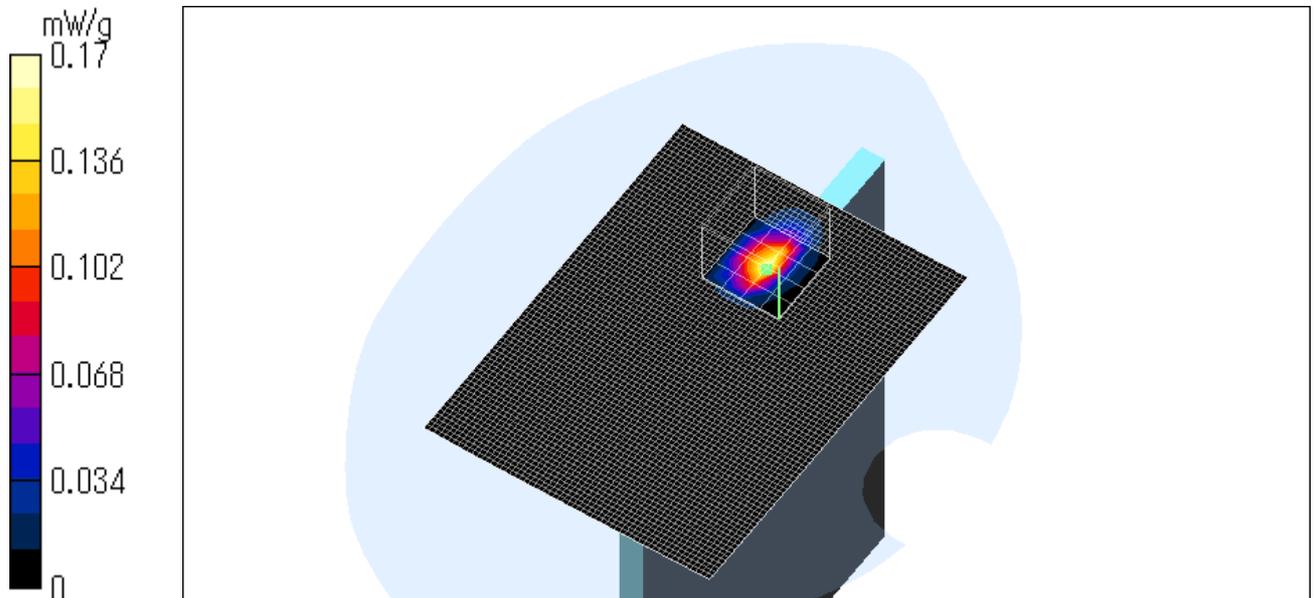
- Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Phantom: SAM 1196
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR = 0.162 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Peak SAR (extrapolated) = 0.405 W/kg
SAR(1 g) = 0.149 mW/g; SAR(10 g) = 0.0501 mW/g
Maximum value of SAR = 0.17 mW/g

Reference Value = 1.54 V/m
Power Drift = 0.4 dB

Test Date = 01/17/04
Ambient Temperature = 25.0 degree.c
Liquid Temperature = Before 22.9 degree.C , After 22.9 degree.C



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IRF303J / Body / Left side (Antenna 1) / 11.b / 2462MHz

Crest factor: 1
Medium: M2450 ($\sigma = 2$ mho/m, $\epsilon_r = 48.6$, $\rho = 1000$ kg/m³)
Phantom section: Flat Section

DASY4 Configuration:

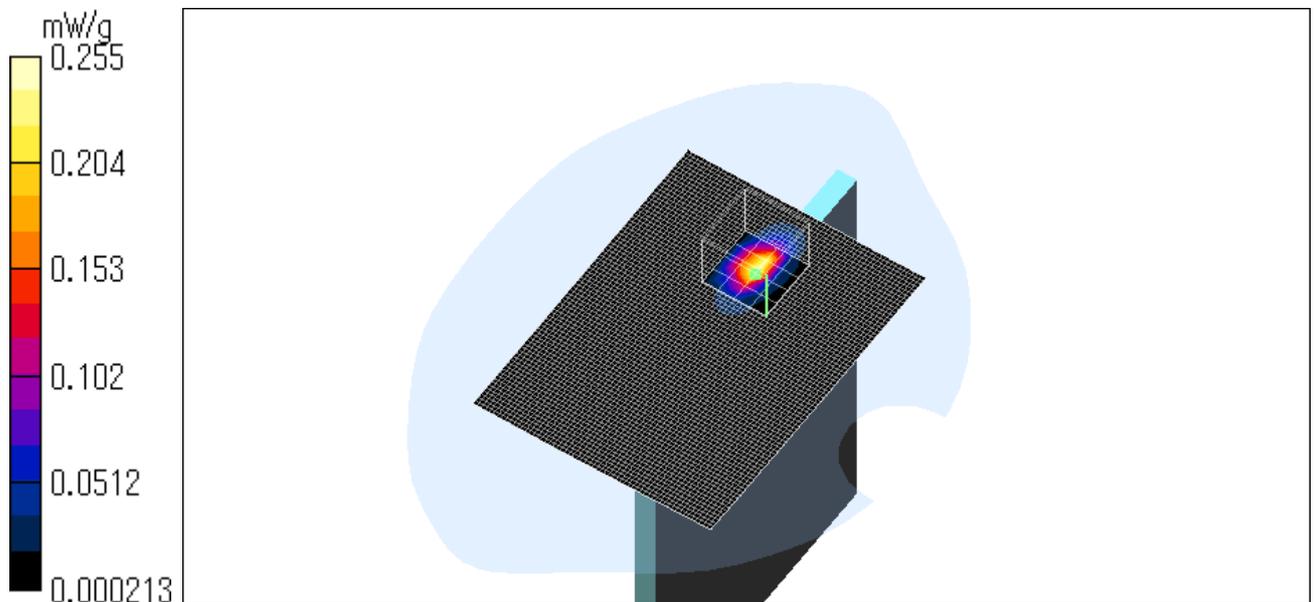
- Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Phantom: SAM 1196
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR = 0.249 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Peak SAR (extrapolated) = 0.67 W/kg
SAR(1 g) = 0.235 mW/g; SAR(10 g) = 0.0773 mW/g
Maximum value of SAR = 0.255 mW/g

Reference Value = 2.69 V/m
Power Drift = -0.2 dB

Test Date = 01/17/04
Ambient Temperature = 25.0 degree.c
Liquid Temperature = Before 22.9 degree.C , After 22.9 degree.C



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IRF303J / Body / Right Front (Antenna 2) / 11.b / 2437MHz

Crest factor: 1
Medium: M2450 ($\sigma = 2$ mho/m, $\epsilon_r = 48.6$, $\rho = 1000$ kg/m³)
Phantom section: Flat Section

DASY4 Configuration:

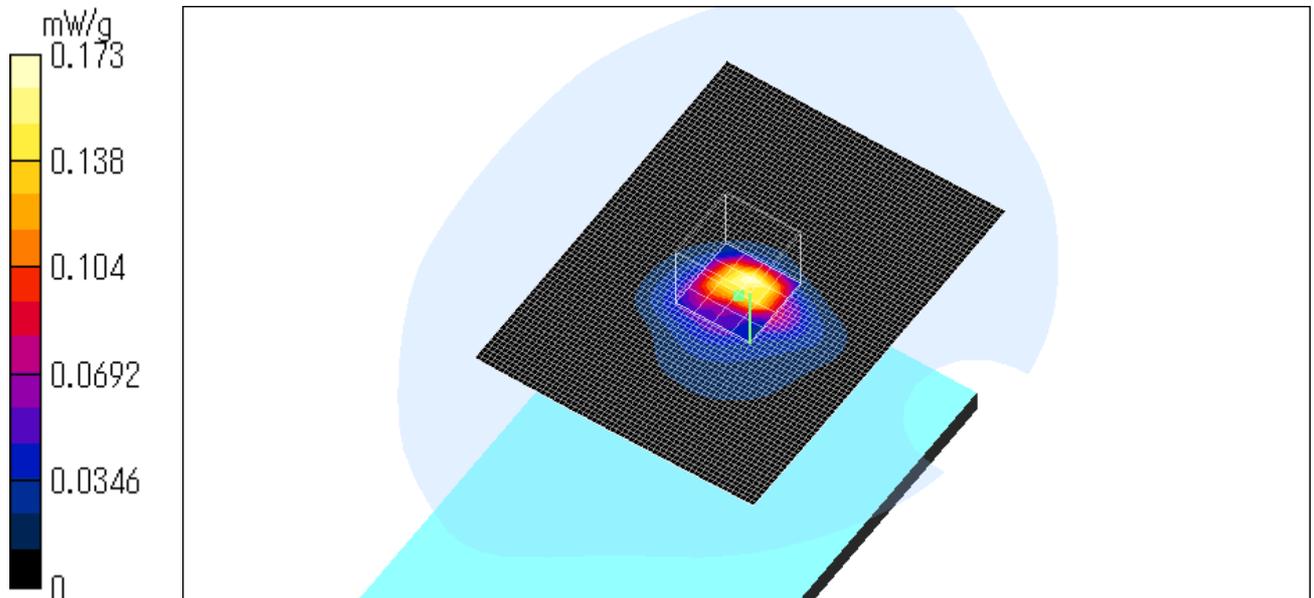
- Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Phantom: SAM 1196
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR = 0.215 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Peak SAR (extrapolated) = 0.407 W/kg
SAR(1 g) = 0.168 mW/g; SAR(10 g) = 0.0735 mW/g
Maximum value of SAR = 0.173 mW/g

Reference Value = 10.2 V/m
Power Drift = -0.05 dB

Test Date = 01/17/04
Ambient Temperature = 25.0 degree.c
Liquid Temperature = Before 22.9 degree.C , After 22.9 degree.C



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IRF303J / Body / Right Side (Antenna 2) / 11.b / 2437MHz

Crest factor: 1

Medium: M2450 ($\sigma = 2$ mho/m, $\epsilon_r = 48.6$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

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

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

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

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

Maximum value of SAR = 0.233 mW/g

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

Peak SAR (extrapolated) = 0.745 W/kg

SAR(1 g) = 0.257 mW/g; SAR(10 g) = 0.0892 mW/g

Maximum value of SAR = 0.292 mW/g

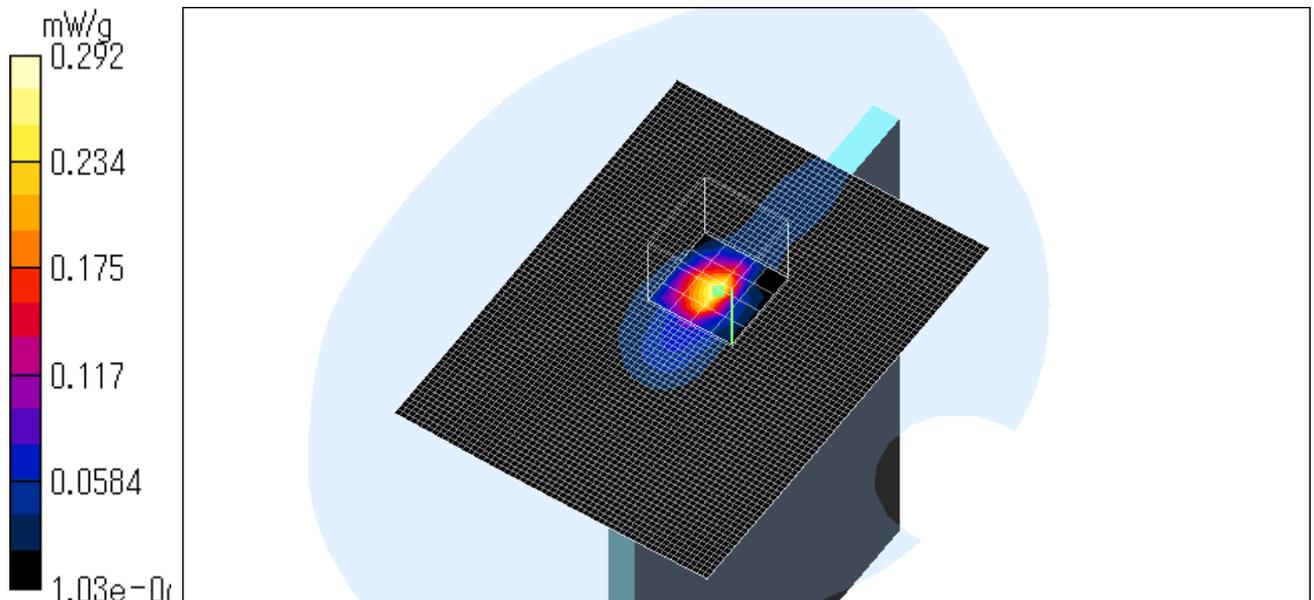
Reference Value = 6.58 V/m

Power Drift = -0.4 dB

Test Date = 01/17/04

Ambient Temperature = 25.0 degree.c

Liquid Temperature = Before 22.9 degree.C , After 22.9 degree.C



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IRF303J / Body / Right Back (Antenna 2) / 11.b / 2437MHz

Crest factor: 1
Medium: M2450 ($\sigma = 2$ mho/m, $\epsilon_r = 48.6$, $\rho = 1000$ kg/m³)
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Phantom: SAM 1196
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

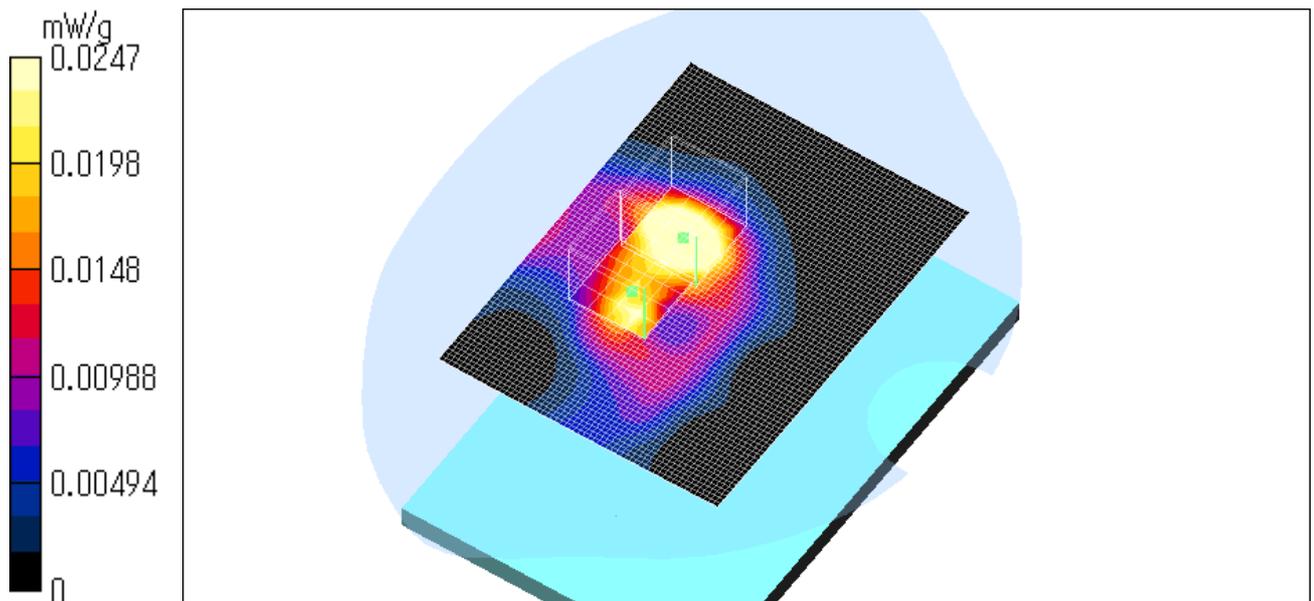
Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR = 0.0378 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Peak SAR (extrapolated) = 0.0795 W/kg
SAR(1 g) = 0.036 mW/g; SAR(10 g) = 0.0181 mW/g
Maximum value of SAR = 0.0385 mW/g

Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Peak SAR (extrapolated) = 0.0501 W/kg
SAR(1 g) = 0.0233 mW/g; SAR(10 g) = 0.0117 mW/g
Maximum value of SAR = 0.0247 mW/g

Reference Value = 3.03 V/m
Power Drift = -0.1 dB

Test Date = 01/17/04
Ambient Temperature = 25.0 degree.c
Liquid Temperature = Before 22.9 degree.C , After 22.9 degree.C



IRF303J / Body / Right Side (Antenna 2) / 11.b / 2412MHz

Crest factor: 1
Medium: M2450 ($\sigma = 2 \text{ mho/m}$, $\epsilon_r = 48.6$, $\rho = 1000 \text{ kg/m}^3$)
Phantom section: Flat Section

DASY4 Configuration:

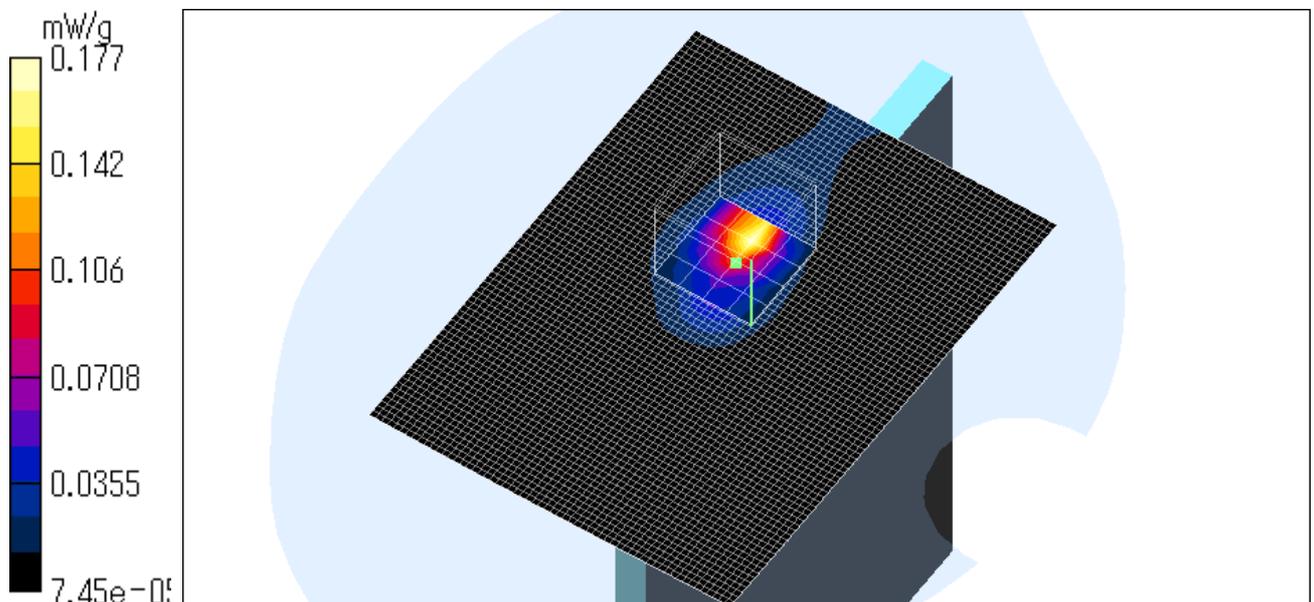
- Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Phantom: SAM 1196
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR = 0.0886 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Peak SAR (extrapolated) = 0.413 W/kg
SAR(1 g) = 0.153 mW/g; SAR(10 g) = 0.0543 mW/g
Maximum value of SAR = 0.177 mW/g

Reference Value = 4.48 V/m
Power Drift = -0.2 dB

Ambient Temperature = 25.0 degree.c
Liquid Temperature = Before 22.8 degree.C , After 22.8 degree.C



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IRF303J / Body / Right Side (Antenna 2) / 11.b / 2462MHz

Crest factor: 1
Medium: M2450 ($\sigma = 2$ mho/m, $\epsilon_r = 48.6$, $\rho = 1000$ kg/m³)
Phantom section: Flat Section

DASY4 Configuration:

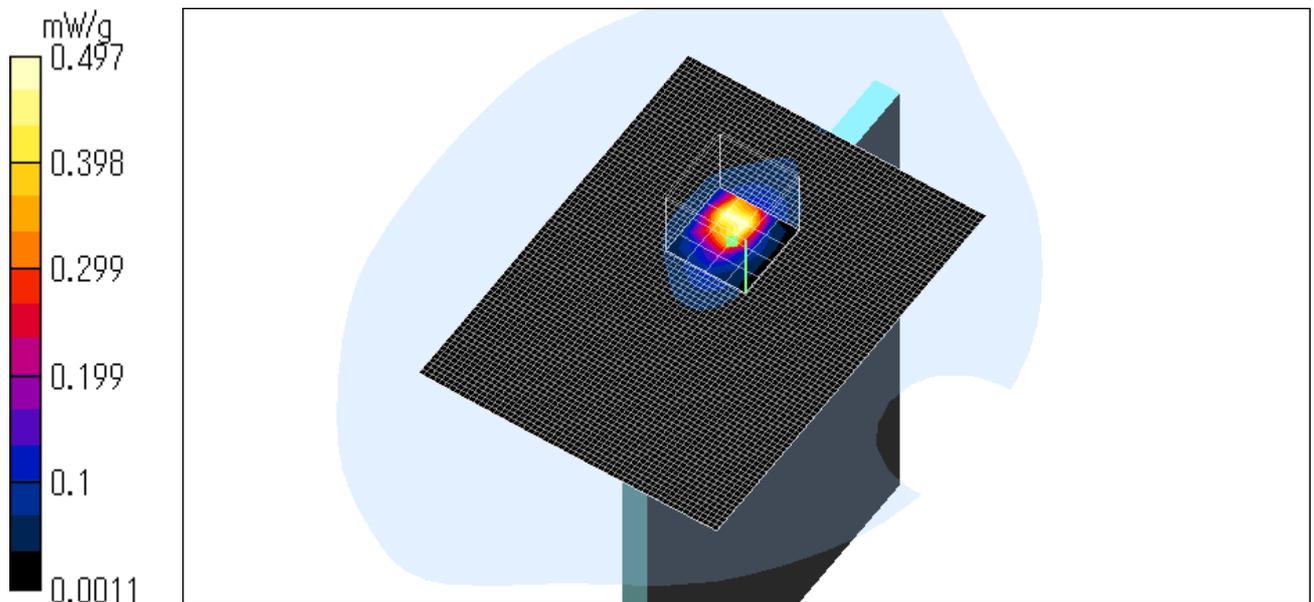
- Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Phantom: SAM 1196
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR = 0.217 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Peak SAR (extrapolated) = 1.55 W/kg
SAR(1 g) = 0.533 mW/g; SAR(10 g) = 0.179 mW/g
Maximum value of SAR = 0.497 mW/g

Reference Value = 5.83 V/m
Power Drift = -0.2 dB

Test Date = 01/17/04
Ambient Temperature = 25.0 degree.c
Liquid Temperature = Before 22.9 degree.C , After 22.9 degree.C



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Z-axis scan at max SAR location

IRF303J / Body / Right Side (Antenna 2) / 11.b / 2462MHz

Crest factor: 1

Medium: M2450 ($\sigma = 2$ mho/m, $\epsilon_r = 48.6$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

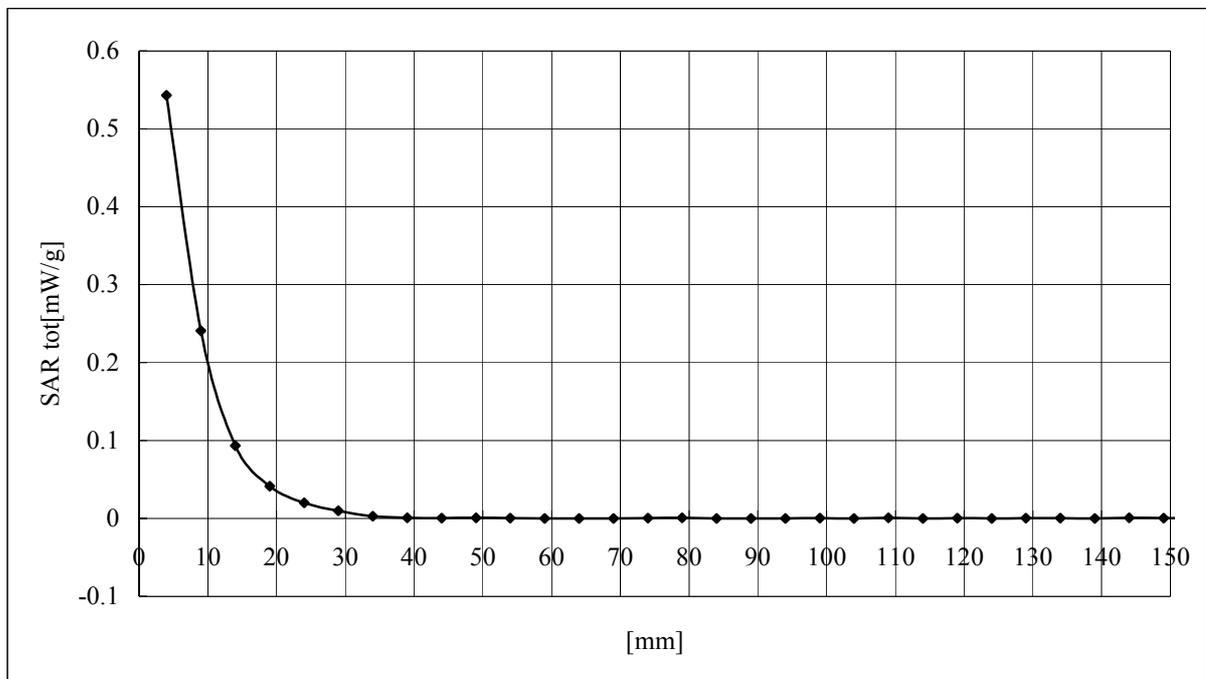
DASY4 Configuration:

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

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

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115



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IRF303J / Body / Right Side (Antenna 2) - 5mm / 11.b / 2462MHz

Crest factor: 1
Medium: M2450 ($\sigma = 2$ mho/m, $\epsilon_r = 48.6$, $\rho = 1000$ kg/m³)
Phantom section: Flat Section

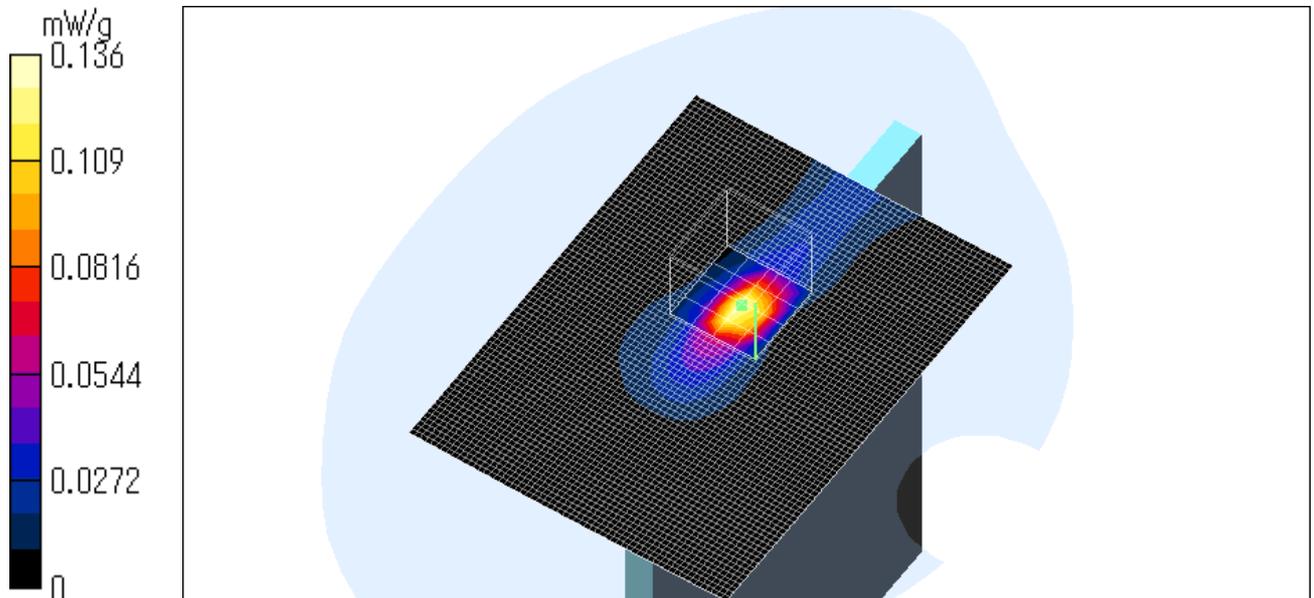
DASY4 Configuration:
- Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Phantom: SAM 1196
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR = 0.166 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Peak SAR (extrapolated) = 0.323 W/kg
SAR(1 g) = 0.13 mW/g; SAR(10 g) = 0.0504 mW/g
Maximum value of SAR = 0.136 mW/g

Reference Value = 5.62 V/m
Power Drift = -0.1 dB

Test Date = 01/17/04
Ambient Temperature = 25.0 degree.c
Liquid Temperature = Before 23.3 degree.C , After 23.3 degree.C



IRF303J / Body / Right Side (Antenna 2) - 10mm / 11.b / 2462MHz

Crest factor: 1
Medium: M2450 ($\sigma = 2$ mho/m, $\epsilon_r = 48.6$, $\rho = 1000$ kg/m³)
Phantom section: Flat Section

DASY4 Configuration:

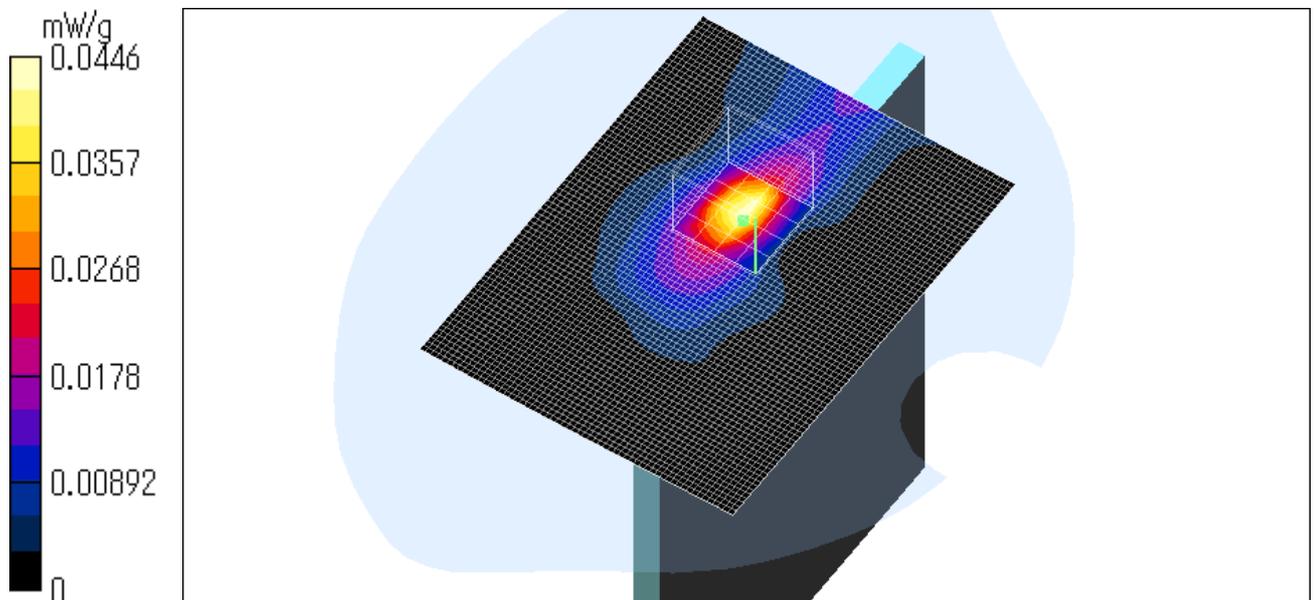
- Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Phantom: SAM 1196
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR = 0.0414 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Peak SAR (extrapolated) = 0.0963 W/kg
SAR(1 g) = 0.0425 mW/g; SAR(10 g) = 0.0195 mW/g
Maximum value of SAR = 0.0446 mW/g

Reference Value = 2.85 V/m
Power Drift = 0.2 dB

Test Date = 01/17/04
Ambient Temperature = 25.0 degree.c
Liquid Temperature = Before 23.3 degree.C , After 23.3 degree.C



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IRF303J / Body / Right Side (Antenna 2) - 15mm / 11.b / 2462MHz

Crest factor: 1
Medium: M2450 ($\sigma = 2$ mho/m, $\epsilon_r = 48.6$, $\rho = 1000$ kg/m³)
Phantom section: Flat Section

DASY4 Configuration:

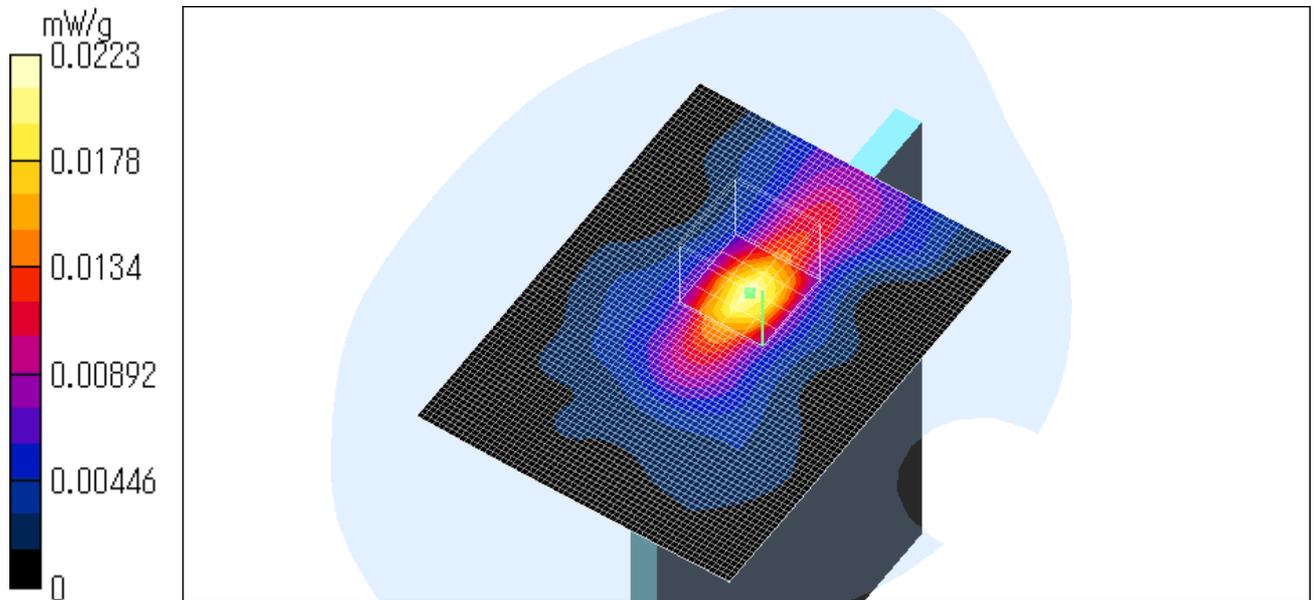
- Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Phantom: SAM 1196
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR = 0.0228 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Peak SAR (extrapolated) = 0.0468 W/kg
SAR(1 g) = 0.0211 mW/g; SAR(10 g) = 0.0105 mW/g
Maximum value of SAR = 0.0223 mW/g

Reference Value = 2.77 V/m
Power Drift = -0.08 dB

Test Date = 01/17/04
Ambient Temperature = 25.0 degree.c
Liquid Temperature = Before 23.3 degree.C , After 23.3 degree.C



IRF303J / Body / Left Front (Antenna 1) / 11.g (QPSK) / 2437MHz

Crest factor: 1

Medium: M2450 ($\sigma = 1.99$ mho/m, $\epsilon_r = 48.8$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

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

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

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

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

Maximum value of SAR = 0.0489 mW/g

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

Peak SAR (extrapolated) = 0.146 W/kg

SAR(1 g) = 0.0548 mW/g; SAR(10 g) = 0.0203 mW/g

Maximum value of SAR = 0.0554 mW/g

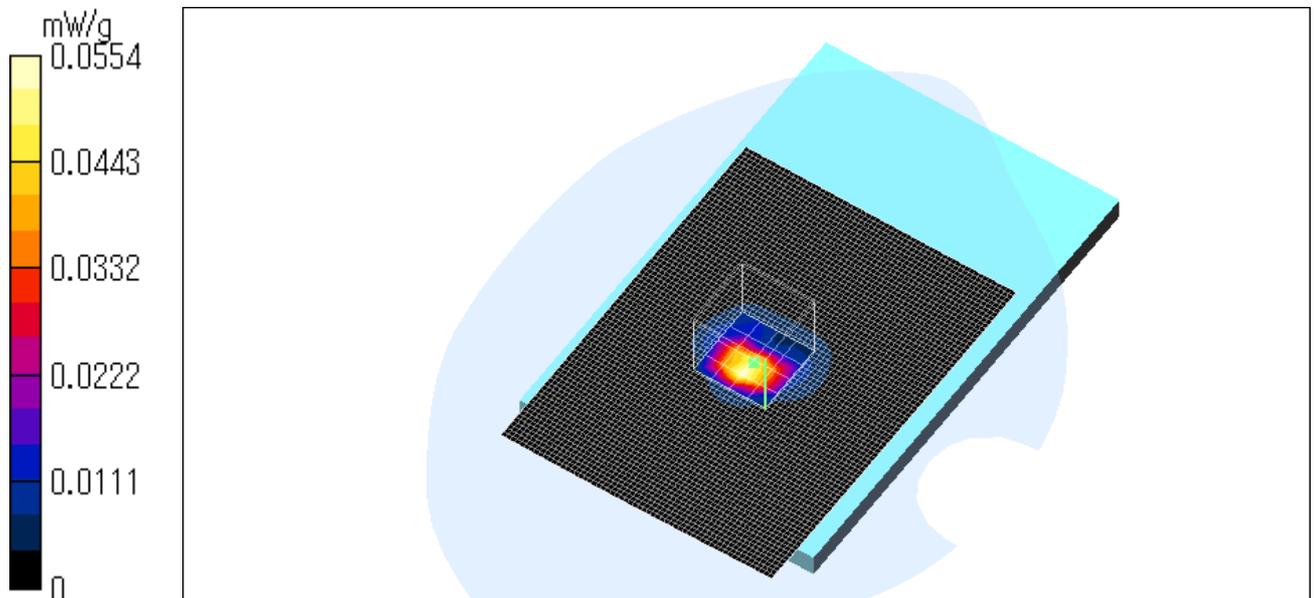
Reference Value = 5.26 V/m

Power Drift = -0.2 dB

Test Date = 01/18/04

Ambient Temperature = 25.0 degree.c

Liquid Temperature = Before 23.3 degree.C , After 23.3 degree.C



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IRF303J / Body / Left Side (Antenna 1) / 11.g (QPSK) / 2437MHz

Crest factor: 1
Medium: M2450 ($\sigma = 1.99$ mho/m, $\epsilon_r = 48.8$, $\rho = 1000$ kg/m³)
Phantom section: Flat Section

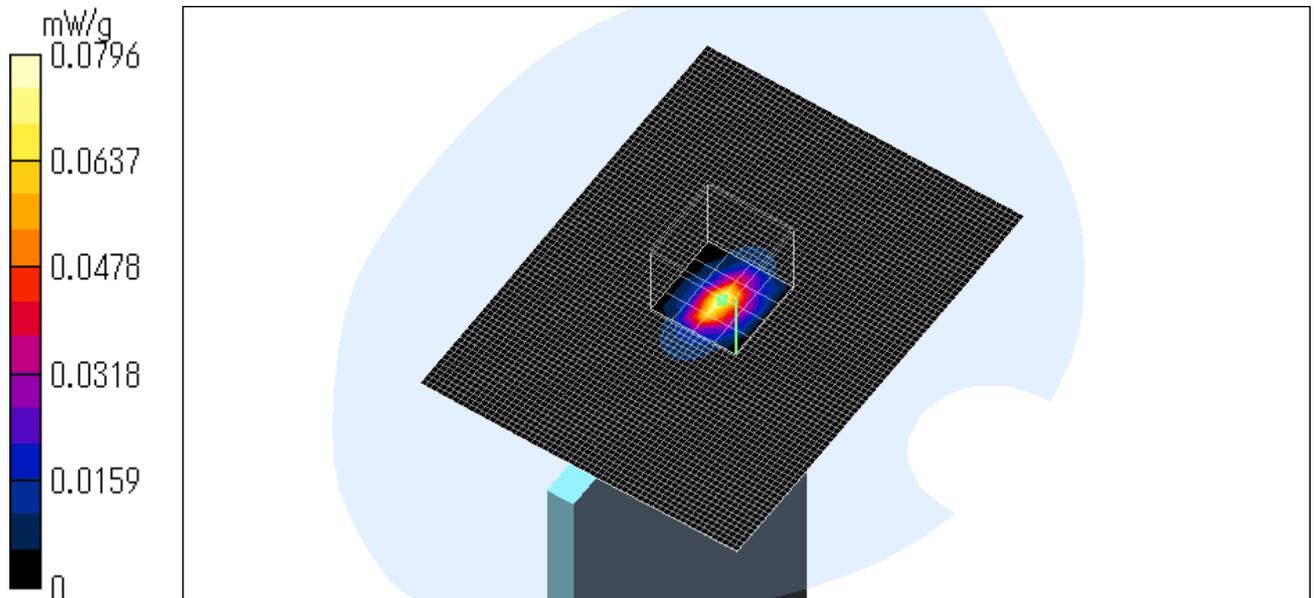
DASY4 Configuration:
- Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Phantom: SAM 1196
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR = 0.081 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Peak SAR (extrapolated) = 0.175 W/kg
SAR(1 g) = 0.0648 mW/g; SAR(10 g) = 0.0213 mW/g
Maximum value of SAR = 0.0796 mW/g

Reference Value = 6.71 V/m
Power Drift = -0.1 dB

Test Date = 01/18/04
Ambient Temperature = 25.0 degree.c
Liquid Temperature = Before 23.2 degree.C , After 23.2 degree.C



IRF303J / Body / Left Back (Antenna 1) / 11.g(QPSK) / 2437MHz

Crest factor: 1
Medium: M2450 ($\sigma = 1.99$ mho/m, $\epsilon_r = 48.8$, $\rho = 1000$ kg/m³)
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Phantom: SAM 1196
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

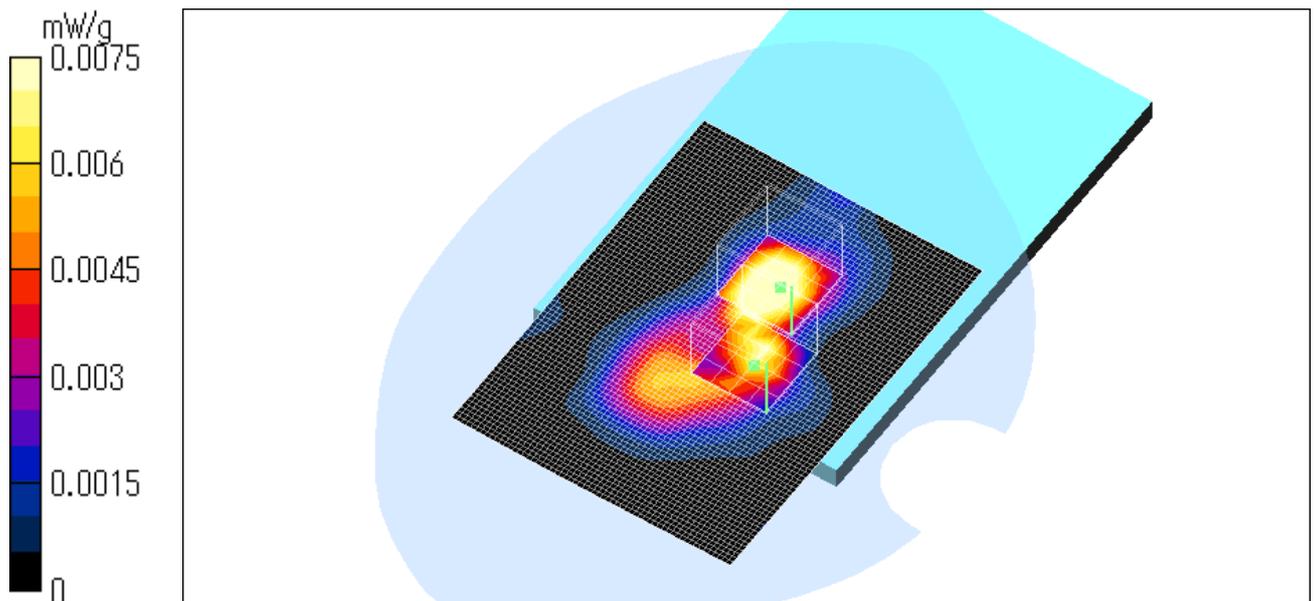
Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR = 0.00941 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Peak SAR (extrapolated) = 0.0159 W/kg
SAR(1 g) = 0.00871 mW/g; SAR(10 g) = 0.00452 mW/g
Maximum value of SAR = 0.00916 mW/g

Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Peak SAR (extrapolated) = 0.0151 W/kg
SAR(1 g) = 0.00693 mW/g; SAR(10 g) = 0.00335 mW/g
Maximum value of SAR = 0.0075 mW/g

Reference Value = 1.33 V/m
Power Drift = 0.4 dB

Test Date = 01/18/04
Ambient Temperature = 25.0 degree.c
Liquid Temperature = Before 23.2 degree.C , After 23.2 degree.C



IRF303J / Body / Left Side (Antenna 1) / 11.g (BPSK) / 2437MHz

Medium: M2450 ($\sigma = 1.99$ mho/m, $\epsilon_r = 48.8$, $\rho = 1000$ kg/m³)
Phantom section: Flat Section

DASY4 Configuration:

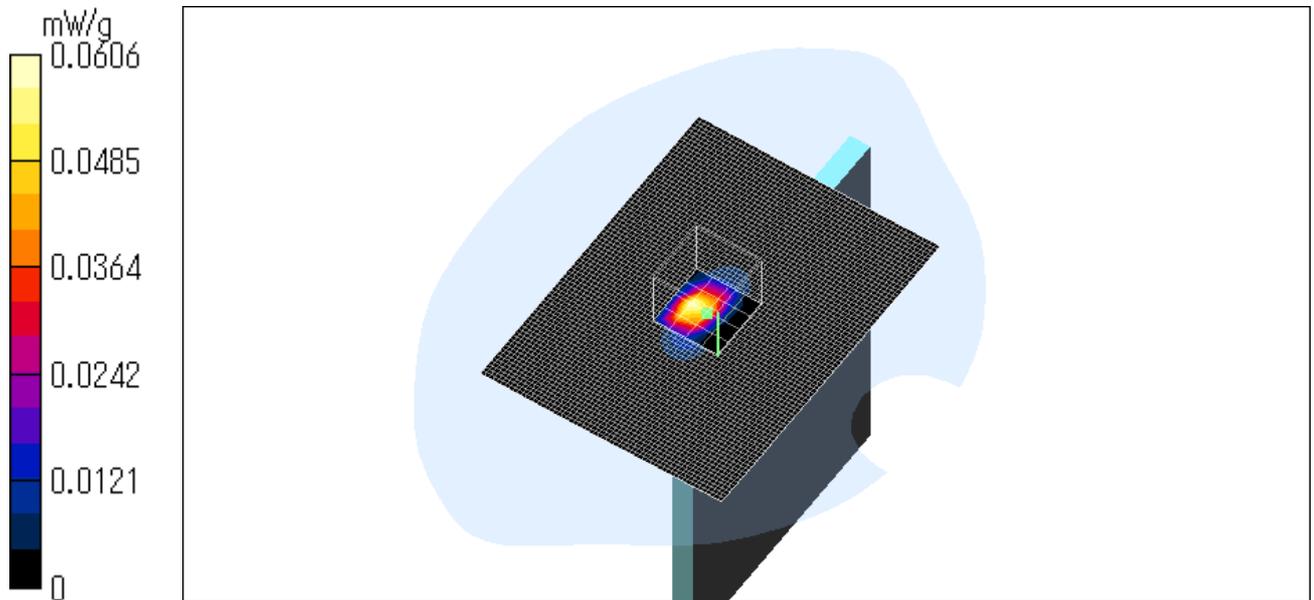
- Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Phantom: SAM 1196
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR = 0.051 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Peak SAR (extrapolated) = 0.168 W/kg
SAR(1 g) = 0.0601 mW/g; SAR(10 g) = 0.0197 mW/g
Maximum value of SAR = 0.0606 mW/g

Reference Value = 5.34 V/m
Power Drift = -0.1 dB

Test Date = 01/18/04
Ambient Temperature = 25.0 degree.c
Liquid Temperature = Before 23.9 degree.C , After 23.9 degree.C



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IRF303J / Body / Left Side (Antenna 1) / 11.g (16QAM) / 2437MHz

Crest factor: 1
Medium: M2450 ($\sigma = 1.99$ mho/m, $\epsilon_r = 48.8$, $\rho = 1000$ kg/m³)
Phantom section: Flat Section

DASY4 Configuration:

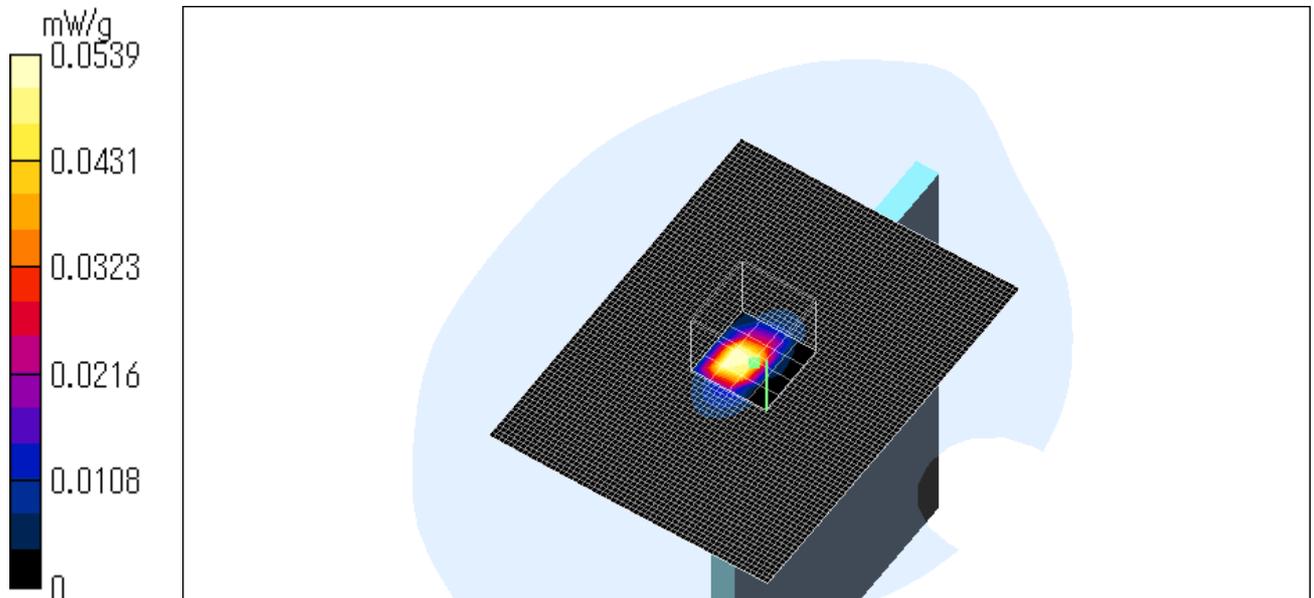
- Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Phantom: SAM 1196
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR = 0.0516 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Peak SAR (extrapolated) = 0.167 W/kg
SAR(1 g) = 0.0602 mW/g; SAR(10 g) = 0.0196 mW/g
Maximum value of SAR = 0.0539 mW/g

Reference Value = 5.37 V/m
Power Drift = -0.2 dB

Test Date = 01/18/04
Ambient Temperature = 25.0 degree.c
Liquid Temperature = Before 23.9 degree.C , After 23.9 degree.C



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IRF303J / Body / Left Side (Antenna 1) / 11.g (64QAM) / 2437MHz

Crest factor: 1
Medium: M2450 ($\sigma = 1.99$ mho/m, $\epsilon_r = 48.8$, $\rho = 1000$ kg/m³)
Phantom section: Flat Section

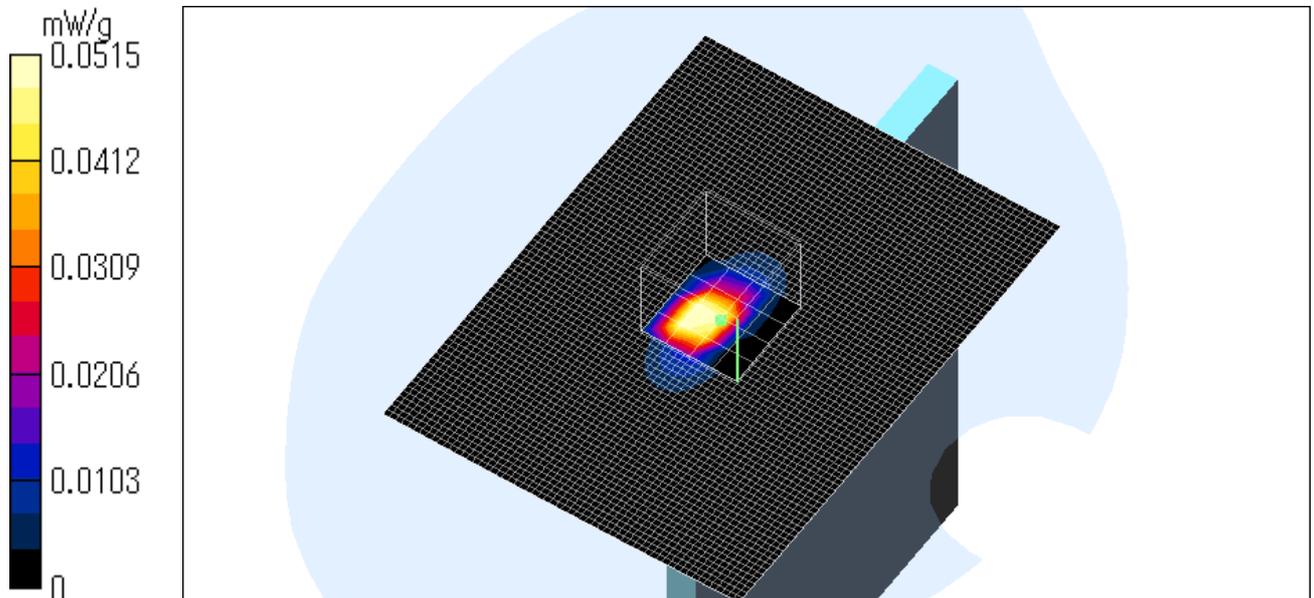
DASY4 Configuration:
- Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Phantom: SAM 1196
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR = 0.0492 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Peak SAR (extrapolated) = 0.168 W/kg
SAR(1 g) = 0.0578 mW/g; SAR(10 g) = 0.0185 mW/g
Maximum value of SAR = 0.0515 mW/g

Reference Value = 5.43 V/m
Power Drift = -0.4 dB

Test Date = 01/18/04
Ambient Temperature = 25.0 degree.c
Liquid Temperature = Before 23.6 degree.C , After 23.8 degree.C



IRF303J / Body / Left Side (Antenna 1) / 11.g (QPSK) / 2412MHz

Crest factor: 1
Medium: M2450 ($\sigma = 1.99$ mho/m, $\epsilon_r = 48.8$, $\rho = 1000$ kg/m³)
Phantom section: Flat Section

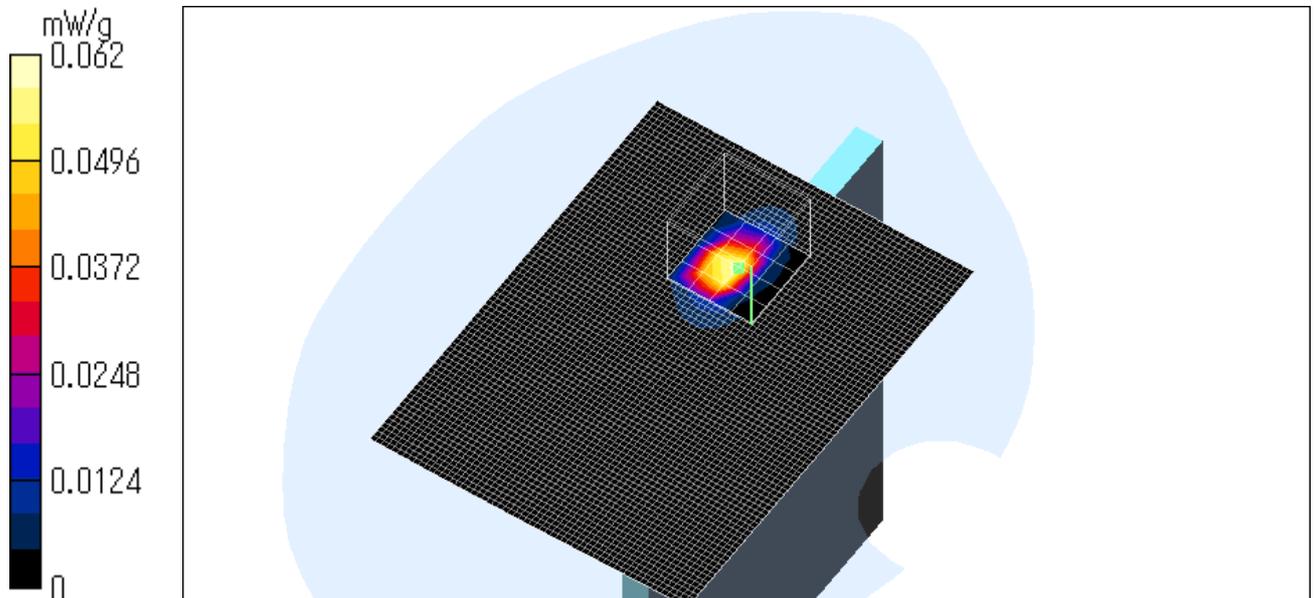
DASY4 Configuration:
- Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Phantom: SAM 1196
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR = 0.0483 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Peak SAR (extrapolated) = 0.181 W/kg
SAR(1 g) = 0.0635 mW/g; SAR(10 g) = 0.0208 mW/g
Maximum value of SAR = 0.062 mW/g

Reference Value = 0.469 V/m
Power Drift = -0.2 dB

Test Date = 01/18/04
Ambient Temperature = 25.0 degree.c
Liquid Temperature = Before 23.4 degree.C , After 23.4 degree.C



IRF303J / Body / Left Side (Antenna 1) / 11.g (QPSK) / 2462MHz

Crest factor: 1
Medium: M2450 ($\sigma = 1.99$ mho/m, $\epsilon_r = 48.8$, $\rho = 1000$ kg/m³)
Phantom section: Flat Section

DASY4 Configuration:

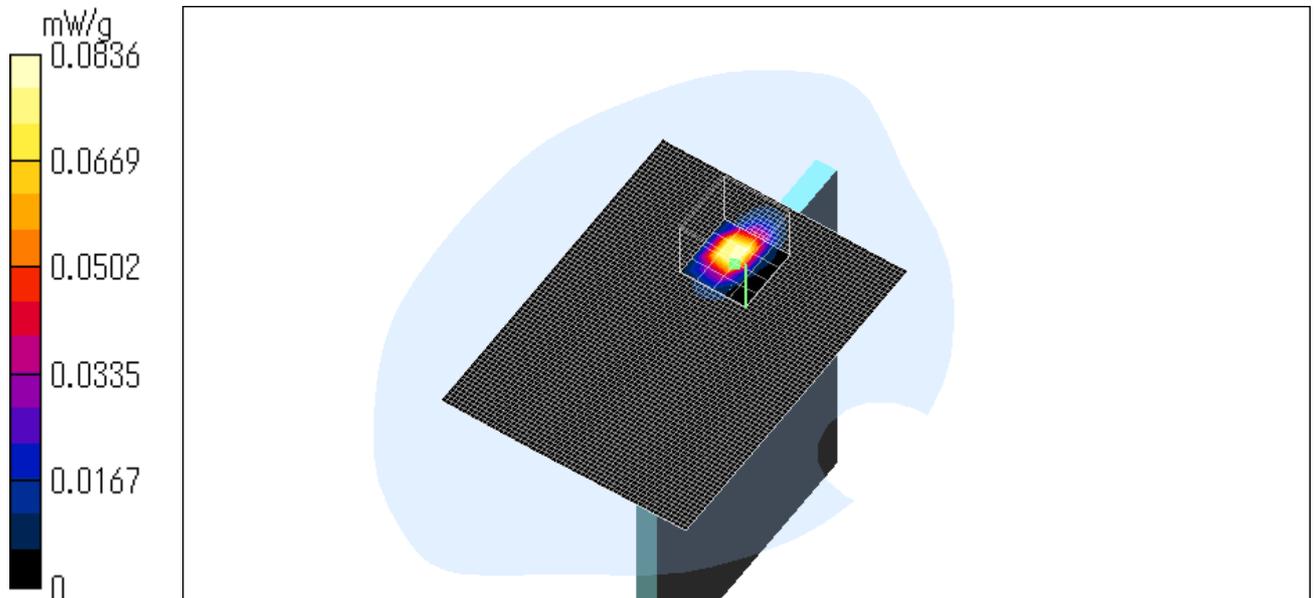
- Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Phantom: SAM 1196
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR = 0.0694 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Peak SAR (extrapolated) = 0.298 W/kg
SAR(1 g) = 0.0965 mW/g; SAR(10 g) = 0.0307 mW/g
Maximum value of SAR = 0.0836 mW/g

Reference Value = 1.45 V/m
Power Drift = 0.04 dB

Test Date = 01/18/04
Ambient Temperature = 25.0 degree.c
Liquid Temperature = Before 23.4 degree.C , After 23.4 degree.C



IRF303J / Body / Right Front (Antenna 2) / 11.g(QPSK) / 2437MHz

Crest factor: 1
Medium: M2450 ($\sigma = 1.99$ mho/m, $\epsilon_r = 48.8$, $\rho = 1000$ kg/m³)
Phantom section: Flat Section

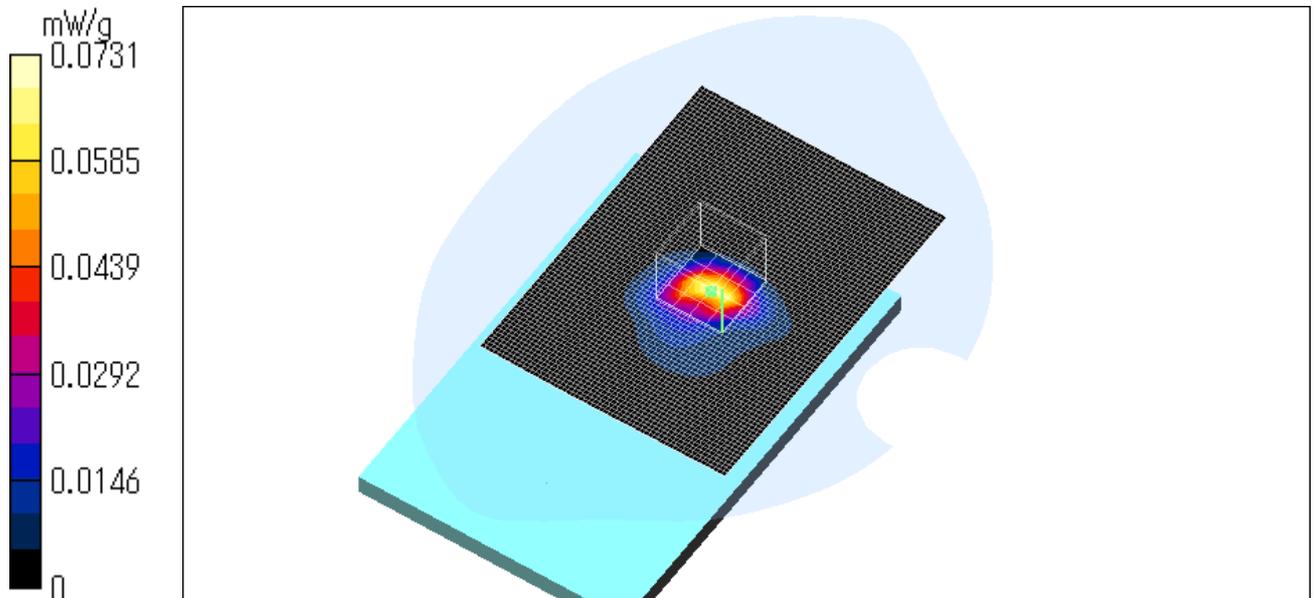
DASY4 Configuration:
- Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Phantom: SAM 1196
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR = 0.0871 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Peak SAR (extrapolated) = 0.156 W/kg
SAR(1 g) = 0.0656 mW/g; SAR(10 g) = 0.029 mW/g
Maximum value of SAR = 0.0731 mW/g

Reference Value = 6.54 V/m
Power Drift = -0.2 dB

Test Date = 01/18/04
Ambient Temperature = 25.0 degree.c
Liquid Temperature = Before 23.2 degree.C , After 23.2 degree.C



IRF303J / Body / Right Side (Antenna 2) / 11.g(QPSK) / 2437MHz

Crest factor: 1
Medium: M2450 ($\sigma = 1.99$ mho/m, $\epsilon_r = 48.8$, $\rho = 1000$ kg/m³)
Phantom section: Flat Section

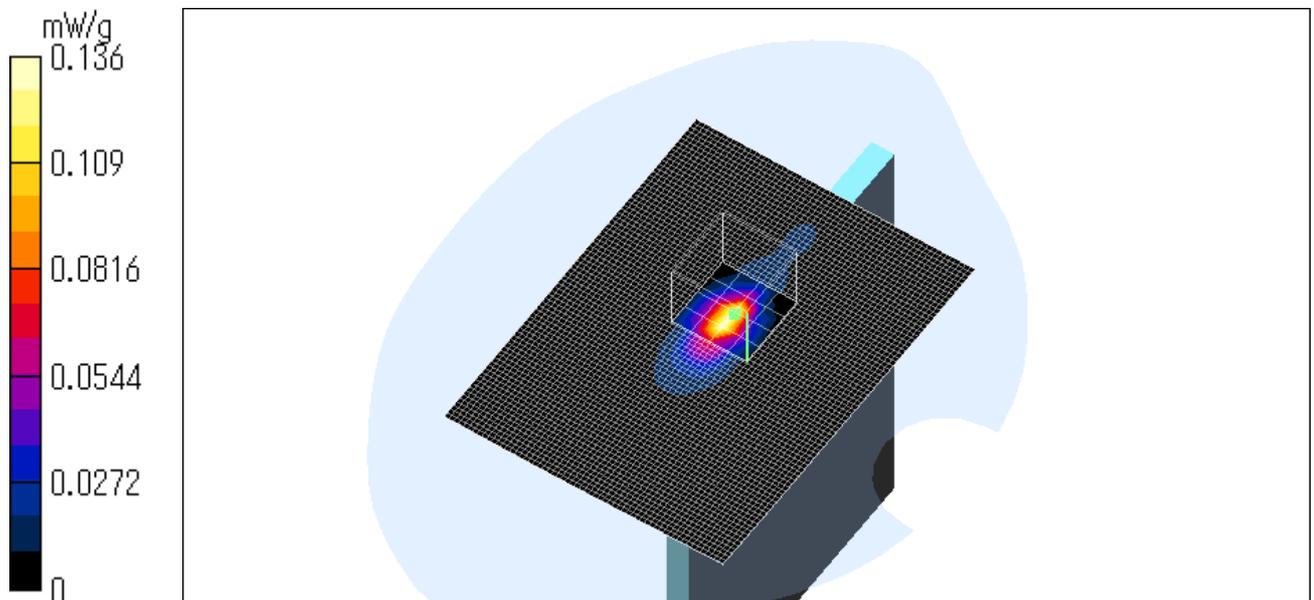
DASY4 Configuration:
- Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Phantom: SAM 1196
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR = 0.106 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Peak SAR (extrapolated) = 0.327 W/kg
SAR(1 g) = 0.118 mW/g; SAR(10 g) = 0.0406 mW/g
Maximum value of SAR = 0.136 mW/g

Reference Value = 5.98 V/m
Power Drift = 0.1 dB

Test Date = 01/18/04
Ambient Temperature = 25.0 degree.c
Liquid Temperature = Before 23.2 degree.C , After 23.4 degree.C



IRF303J / Body / Right Back (Antenna 2) / 11.g(QPSK) / 2437MHz

Crest factor: 1
Medium: M2450 ($\sigma = 1.99$ mho/m, $\epsilon_r = 48.8$, $\rho = 1000$ kg/m³)
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Phantom: SAM 1196
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

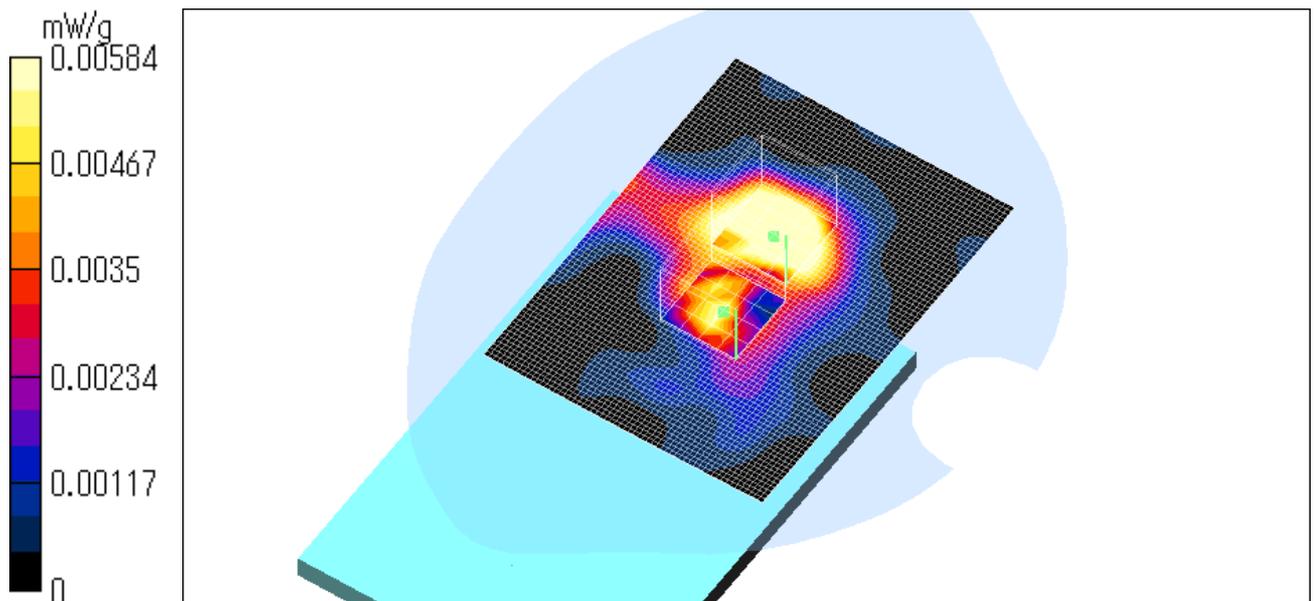
Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR = 0.0101 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Peak SAR (extrapolated) = 0.0226 W/kg
SAR(1 g) = 0.0103 mW/g; SAR(10 g) = 0.00524 mW/g
Maximum value of SAR = 0.0103 mW/g

Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Peak SAR (extrapolated) = 0.0142 W/kg
SAR(1 g) = 0.00536 mW/g; SAR(10 g) = 0.00245 mW/g
Maximum value of SAR = 0.00584 mW/g

Reference Value = 1.37 V/m
Power Drift = -0.4 dB

Test Date = 01/18/04
Ambient Temperature = 25.0 degree.c
Liquid Temperature = Before 23.6 degree.C , After 23.6 degree.C



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IRF303J / Body / Right Side (Antenna 2) / 11.g(BPSK) / 2437MHz

Crest factor: 1

Medium: M2450 ($\sigma = 1.99$ mho/m, $\epsilon_r = 48.8$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

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

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

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

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

Maximum value of SAR = 0.0885 mW/g

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

Peak SAR (extrapolated) = 0.301 W/kg

SAR(1 g) = 0.102 mW/g; SAR(10 g) = 0.0352 mW/g

Maximum value of SAR = 0.106 mW/g

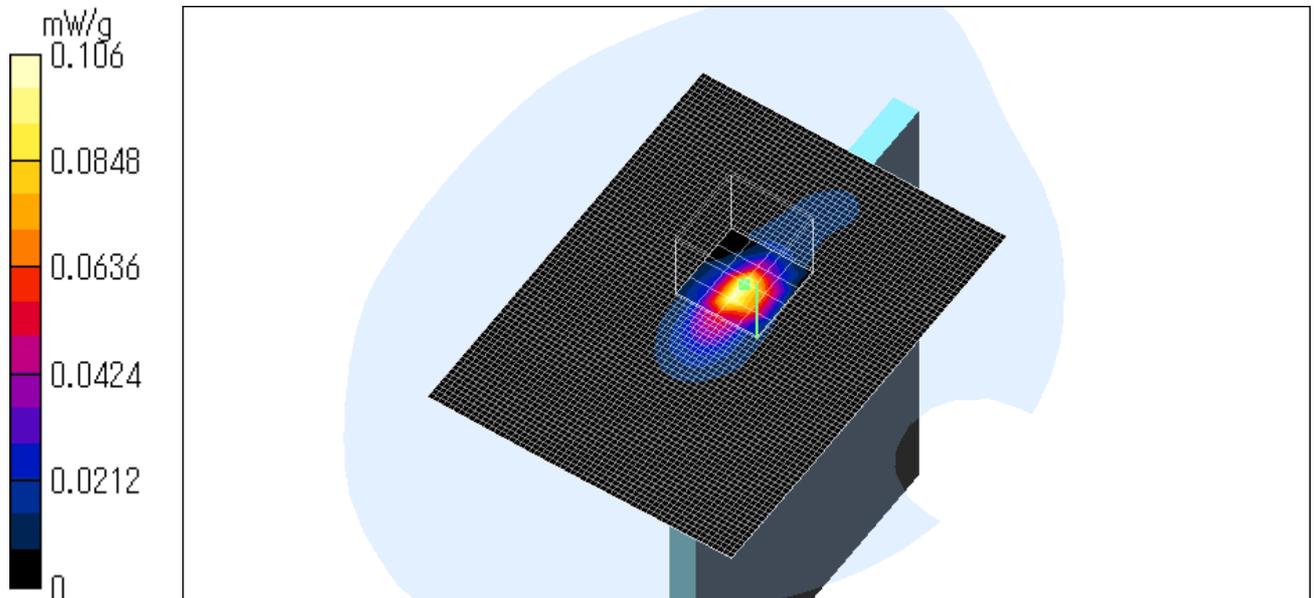
Reference Value = 5.45 V/m

Power Drift = -0.3 dB

Test Date = 01/17/04

Ambient Temperature = 25.0 degree.c

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



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IRF303J / Body / Right Side (Antenna 2) / 11.g(16QAM) / 2437MHz

Crest factor: 1
Medium: M2450 ($\sigma = 1.99$ mho/m, $\epsilon_r = 48.8$, $\rho = 1000$ kg/m³)
Phantom section: Flat Section

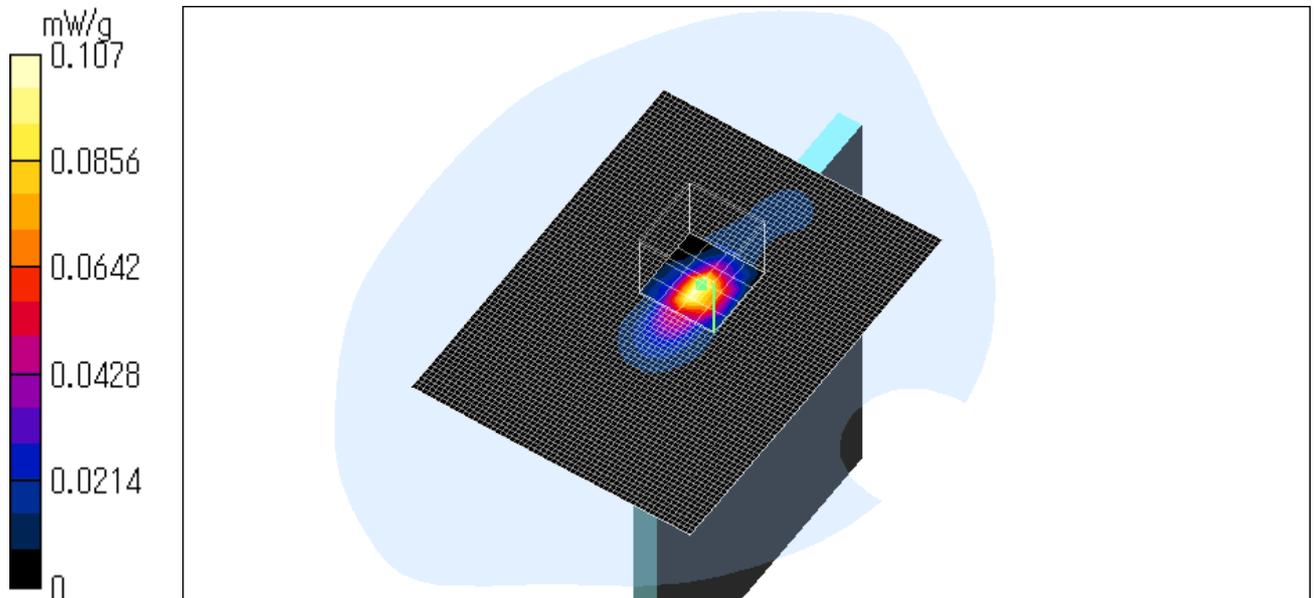
DASY4 Configuration:
- Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Phantom: SAM 1196
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR = 0.0874 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Peak SAR (extrapolated) = 0.291 W/kg
SAR(1 g) = 0.102 mW/g; SAR(10 g) = 0.0356 mW/g
Maximum value of SAR = 0.107 mW/g

Reference Value = 5.26 V/m
Power Drift = 0.1 dB

Test Date = 01/18/04
Ambient Temperature = 25.0 degree.c
Liquid Temperature = Before 23.5 degree.C , After 23.5 degree.C



IRF303J / Body / Right Side (Antenna 2) / 11.g(64QAM) / 2437MHz

Crest factor: 1
Medium: M2450 ($\sigma = 1.99$ mho/m, $\epsilon_r = 48.8$, $\rho = 1000$ kg/m³)
Phantom section: Flat Section

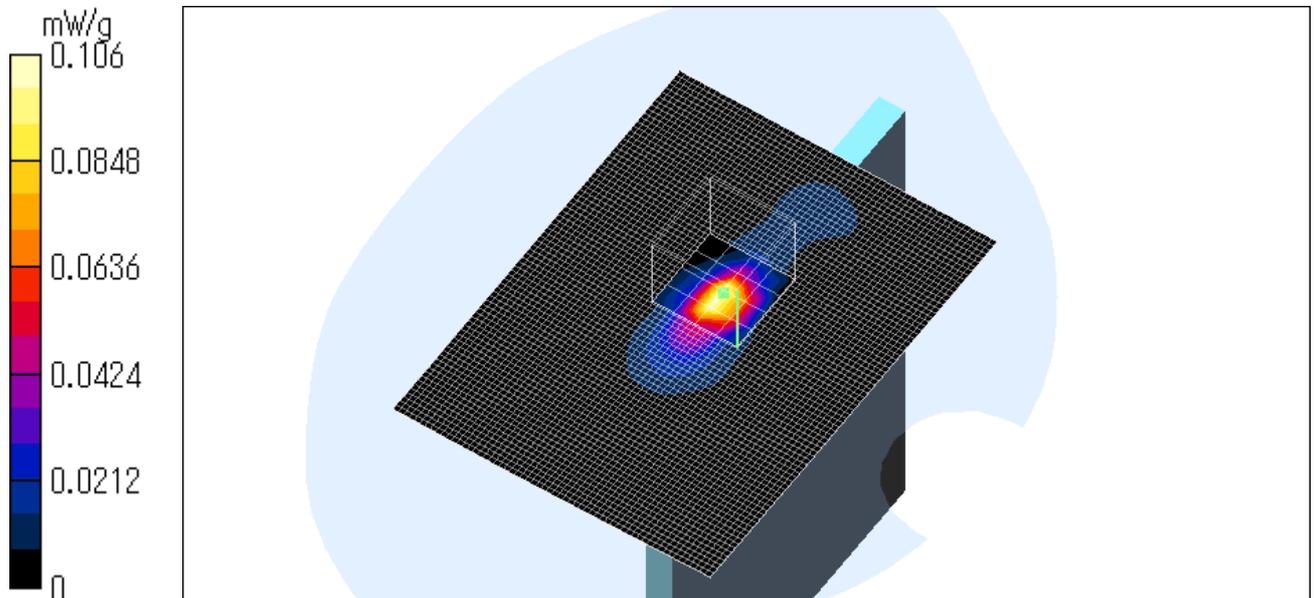
DASY4 Configuration:
- Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Phantom: SAM 1196
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR = 0.0864 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Peak SAR (extrapolated) = 0.286 W/kg
SAR(1 g) = 0.101 mW/g; SAR(10 g) = 0.0347 mW/g
Maximum value of SAR = 0.106 mW/g

Reference Value = 5.21 V/m
Power Drift = -0.02 dB

Test Date = 01/18/04
Ambient Temperature = 25.0 degree.c
Liquid Temperature = Before 23.5 degree.C , After 23.5 degree.C



IRF303J / Body / Right Side (Antenna 2) / 11.g(QPSK) / 2412MHz

Crest factor: 1
Medium: M2450 ($\sigma = 1.99$ mho/m, $\epsilon_r = 48.8$, $\rho = 1000$ kg/m³)
Phantom section: Flat Section

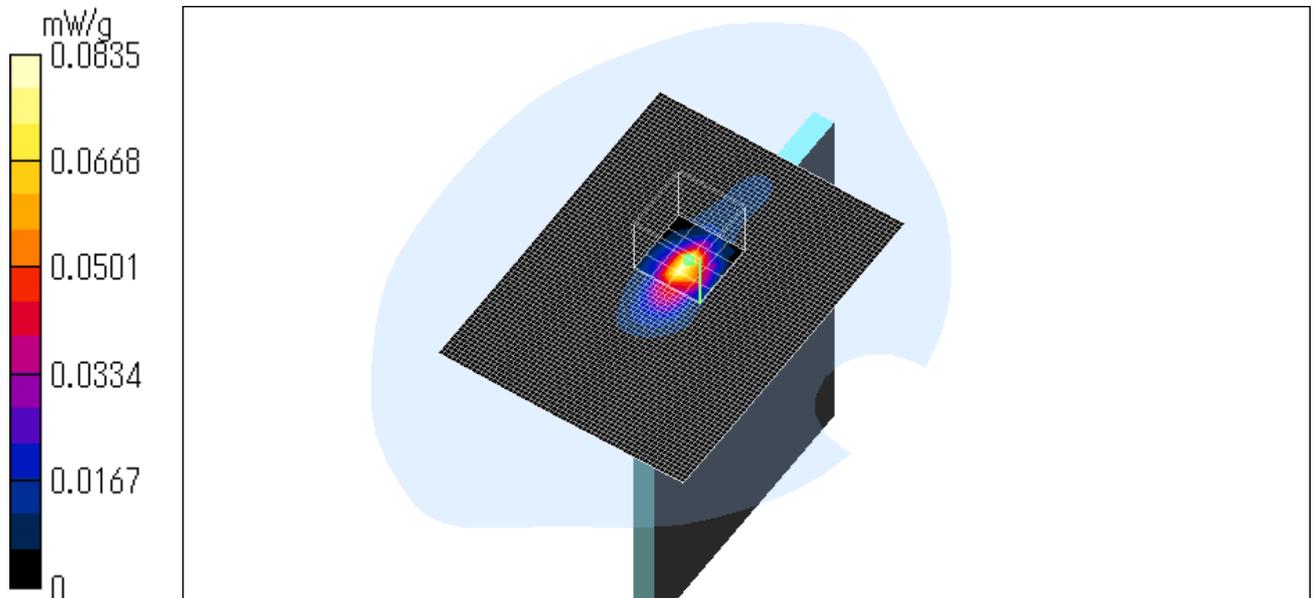
DASY4 Configuration:
- Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Phantom: SAM 1196
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR = 0.0696 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Peak SAR (extrapolated) = 0.217 W/kg
SAR(1 g) = 0.0769 mW/g; SAR(10 g) = 0.027 mW/g
Maximum value of SAR = 0.0835 mW/g

Reference Value = 5.09 V/m
Power Drift = -0.2 dB

Test Date = 01/18/04
Ambient Temperature = 25.0 degree.c
Liquid Temperature = Before 23.6 degree.C , After 23.6 degree.C



IRF303J / Body / Right Side (Antenna 2) / 11.g(QPSK) / 2462MHz

Crest factor: 1
Medium: M2450 ($\sigma = 1.99$ mho/m, $\epsilon_r = 48.8$, $\rho = 1000$ kg/m³)
Phantom section: Flat Section

DASY4 Configuration:

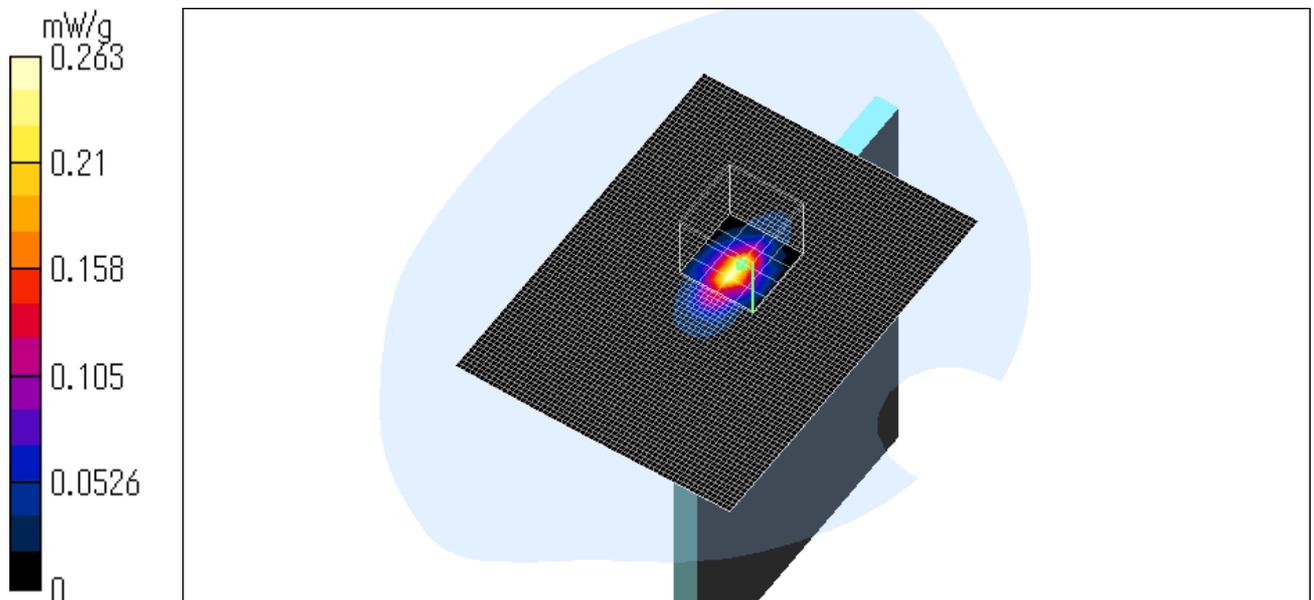
- Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Phantom: SAM 1196
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR = 0.205 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Peak SAR (extrapolated) = 0.618 W/kg
SAR(1 g) = 0.226 mW/g; SAR(10 g) = 0.0775 mW/g
Maximum value of SAR = 0.263 mW/g

Reference Value = 8.44 V/m
Power Drift = 0.003 dB

Test Date = 01/18/04
Ambient Temperature = 25.0 degree.c
Liquid Temperature = Before 23.6 degree.C , After 23.6 degree.C



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APPENDIX 3: Validation Measurement data

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

Crest factor: 1
Medium: HSL2450 ($\sigma = 1.83$ mho/m, $\epsilon_r = 36.5$, $\rho = 1000$ kg/m³)
Phantom section: Flat Section

Dipole 2450 MHz;
- Type: D2450V2; Serial: SN:713

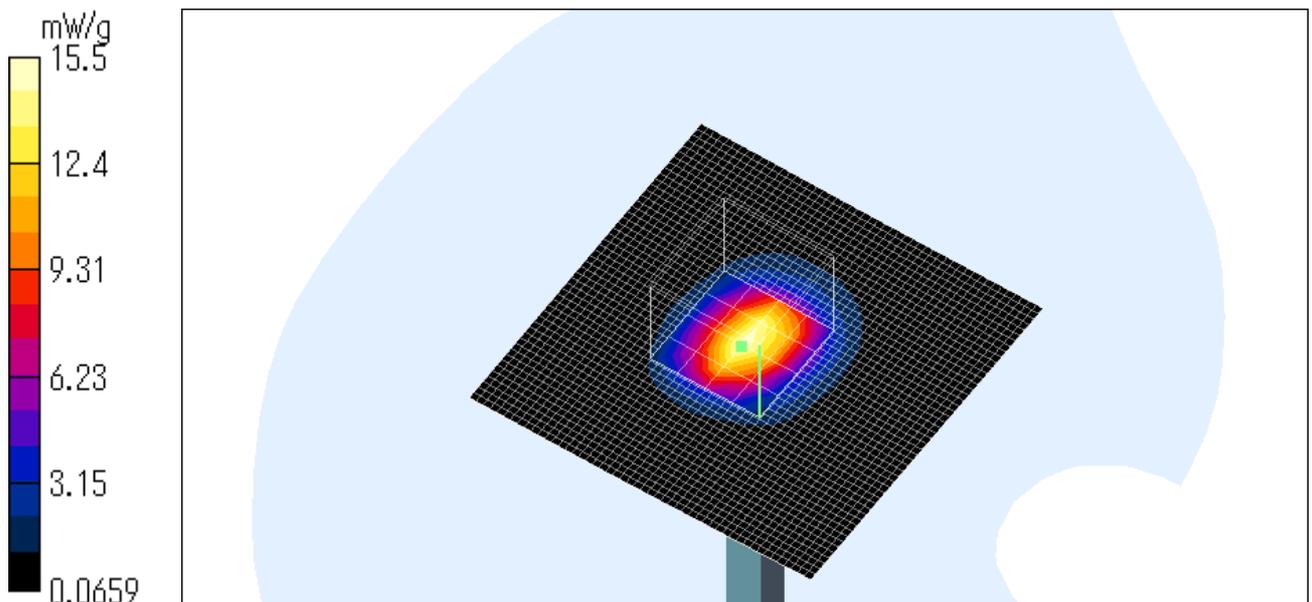
DASY4 Configuration:
- Probe: ET3DV6 - SN1684; ConvF(4.39, 4.39, 4.39); Calibrated: 2004/09/02
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Phantom: SAM 1196
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (51x51x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR = 16.5 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Peak SAR (extrapolated) = 29.4 W/kg
SAR(1 g) = 14.2 mW/g; SAR(10 g) = 6.44 mW/g
Maximum value of SAR = 15.5 mW/g

Reference Value = 95.4 V/m
Power Drift = -0.001 dB

Test date = 01/17/2004
Ambient Temperature = 25.0degree.c
Liquid Temperature = Before 23.8 degree.C , After 23.8 degree.C



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

Crest factor: 1
Medium: HSL2450 ($\sigma = 1.83$ mho/m, $\epsilon_r = 36.5$, $\rho = 1000$ kg/m³)
Phantom section: Flat Section

Dipole 2450 MHz;
- Type: D2450V2; Serial: SN:713

DASY4 Configuration:
- Probe: ET3DV6 - SN1684; ConvF(4.39, 4.39, 4.39); Calibrated: 2004/09/02
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Phantom: SAM 1196
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (51x51x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR = 16.3 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Peak SAR (extrapolated) = 28.7 W/kg
SAR(1 g) = 14 mW/g; SAR(10 g) = 6.4 mW/g
Maximum value of SAR = 15.1 mW/g

Reference Value = 94.3 V/m
Power Drift = -0.003 dB

Test date = 01/18/2004
Ambient Temperature = 25.0degree.c
Liquid Temperature = Before 24.0 degree.C , After 24.0 degree.C

