

## **APPENDIX 2 : SAR Measurement data**

### S1596-01 / Body / Right Back (ANT.0) / 11.b DBPSK / 2437MHz

Crest factor: 1.3

Medium: M2450 ( $\sigma = 1.99$  mho/m,  $\epsilon_r = 50.1$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

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 = 0.403 mW/g

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

Peak SAR (extrapolated) = 1.47 W/kg

**SAR(1 g) = 0.509 mW/g; SAR(10 g) = 0.213 mW/g**

Maximum value of SAR = 0.504 mW/g

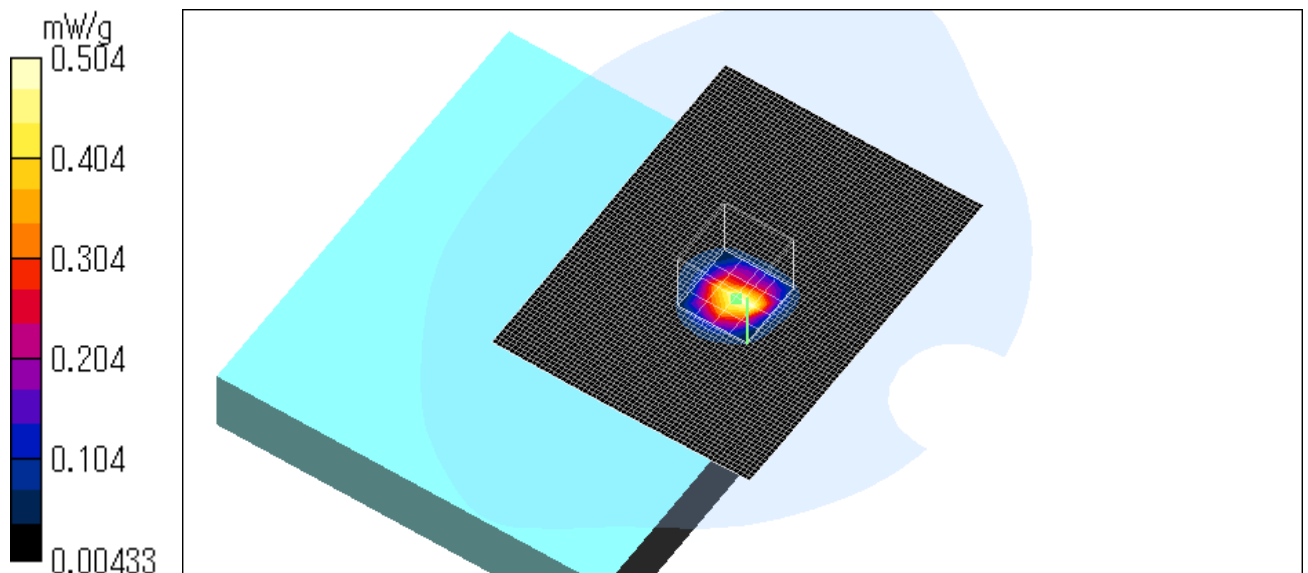
Reference Value = 12.8 V/m

Power Drift = -0.3 dB

Test Date = 03/25/05

Ambient Temperature = 25.0degree.c

Liquid Temperature = Before 23.2 degree.C , After 23.3 degree.C



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## S1596-01 / Body / Right Back (ANT.0) / 11.b DQPSK / 2437MHz

Crest factor: 1.5  
Medium: M2450 ( $\sigma = 1.99$  mho/m,  $\epsilon_r = 50.1$ ,  $\rho = 1000$  kg/m<sup>3</sup>)  
Phantom section: Flat Section

DASY4 Configuration:

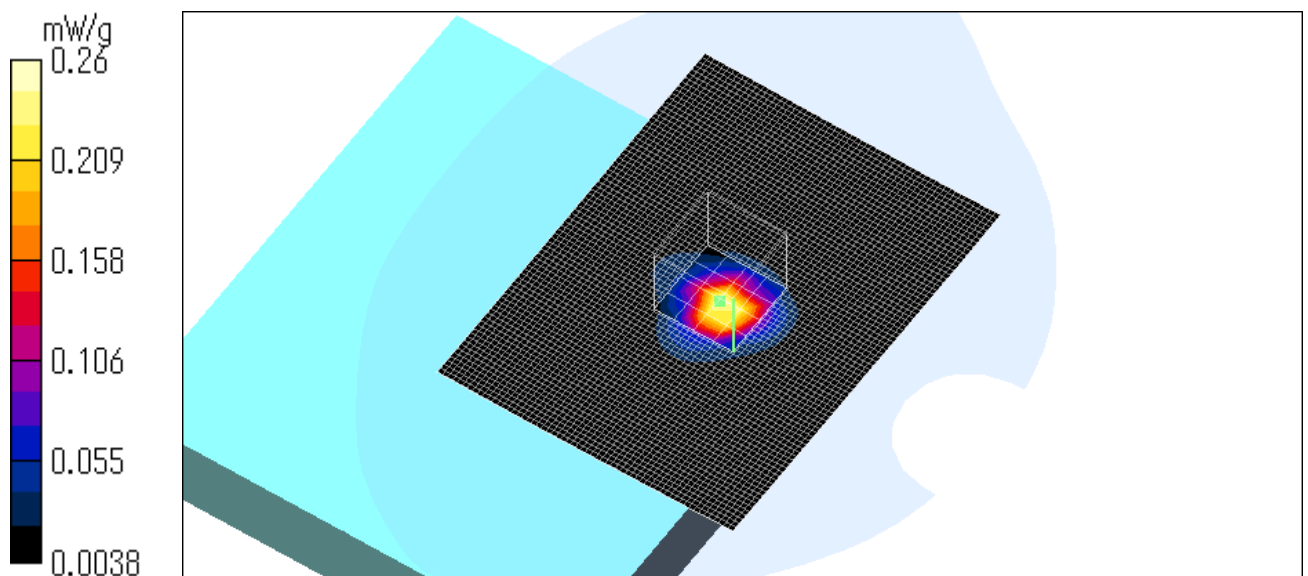
- Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Phantom: SAM 1196
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

**Area Scan (61x81x1):** Measurement grid: dx=20mm, dy=20mm  
Maximum value of SAR = 0.28 mW/g

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Peak SAR (extrapolated) = 0.881 W/kg  
**SAR(1 g) = 0.267 mW/g; SAR(10 g) = 0.109 mW/g**  
Maximum value of SAR = 0.26 mW/g

Reference Value = 11.6 V/m  
Power Drift = -0.4 dB

Test Date = 03/25/05  
Ambient Temperature = 25.0degree.c  
Liquid Temperature = Before 23.3 degree.C , After 23.4 degree.C



## S1596-01 / Body / Right Back (ANT.0) / 11.b CCK(5.5Mbps) / 2437MHz

Crest factor: 1.9

Medium: M2450 ( $\sigma = 1.99$  mho/m,  $\epsilon_r = 50.1$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

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 = 0.105 mW/g

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

Peak SAR (extrapolated) = 0.293 W/kg

**SAR(1 g) = 0.123 mW/g; SAR(10 g) = 0.0534 mW/g**

Maximum value of SAR = 0.13 mW/g

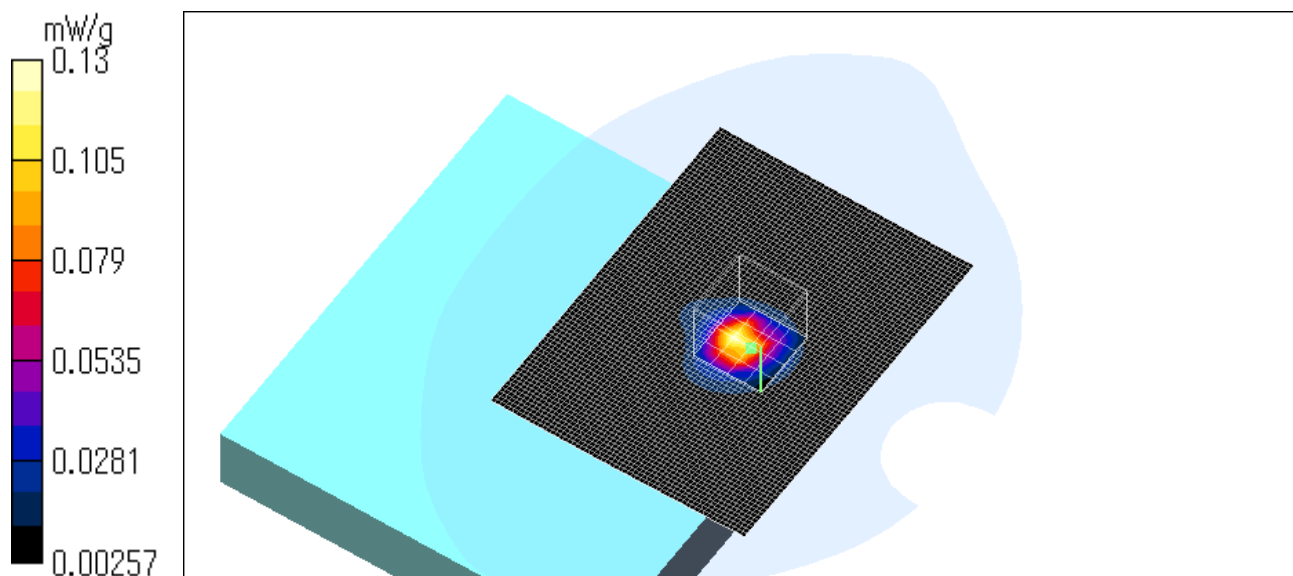
Reference Value = 7.36 V/m

Power Drift = 0.2 dB

Test Date = 03/25/05

Ambient Temperature = 25.0degree.c

Liquid Temperature = Before 23.4 degree.C , After 23.4 degree.C



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**S1596-01 / Body / Right Back (ANT.0) / 11.b CCK(11Mbps) / 2437MHz**

Crest factor: 2.3  
Medium: M2450 ( $\sigma = 1.99$  mho/m,  $\epsilon_r = 50.1$ ,  $\rho = 1000$  kg/m<sup>3</sup>)  
Phantom section: Flat Section

DASY4 Configuration:

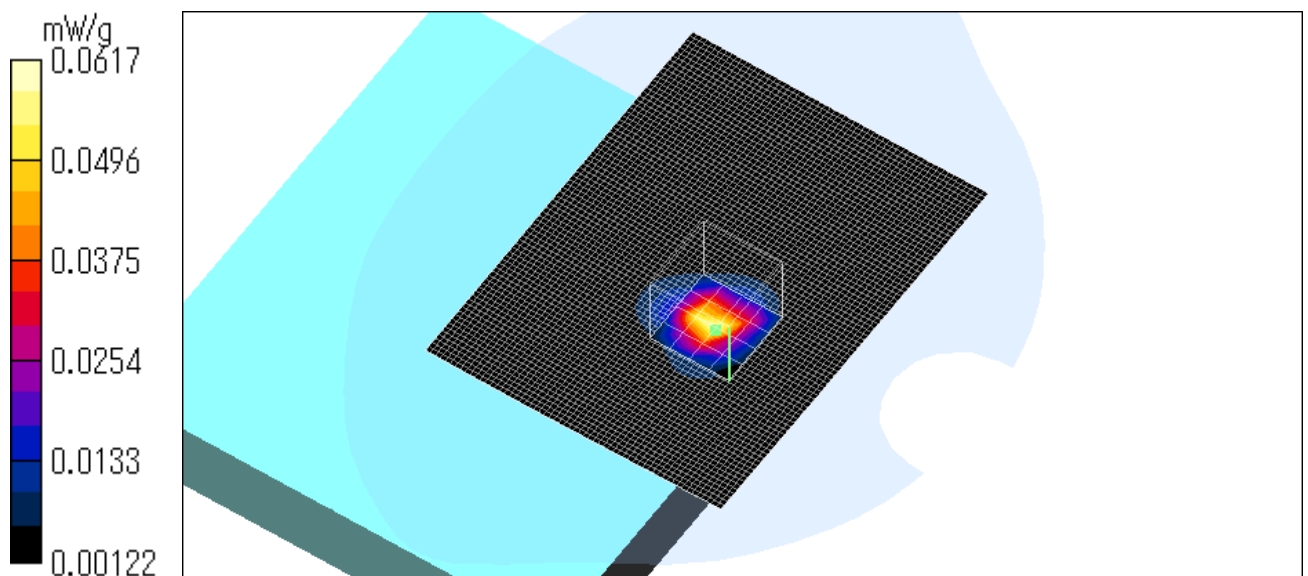
- Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Phantom: SAM 1196
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

**Area Scan (61x81x1):** Measurement grid: dx=20mm, dy=20mm  
Maximum value of SAR = 0.0522 mW/g

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Peak SAR (extrapolated) = 0.157 W/kg  
**SAR(1 g) = 0.0569 mW/g; SAR(10 g) = 0.0236 mW/g**  
Maximum value of SAR = 0.0617 mW/g

Reference Value = 1.75 V/m  
Power Drift = -0.4 dB

Test Date = 03/25/05  
Ambient Temperature = 25.0degree.c  
Liquid Temperature = Before 23.8 degree.C , After 24.0 degree.C



**S1596-01 / Body / Right Front (ANT.0) / 11.b DBPSK / 2437MHz**

Crest factor: 1.3  
Medium: M2450 ( $\sigma = 1.99$  mho/m,  $\epsilon_r = 50.1$ ,  $\rho = 1000$  kg/m<sup>3</sup>)  
Phantom section: Flat Section

DASY4 Configuration:

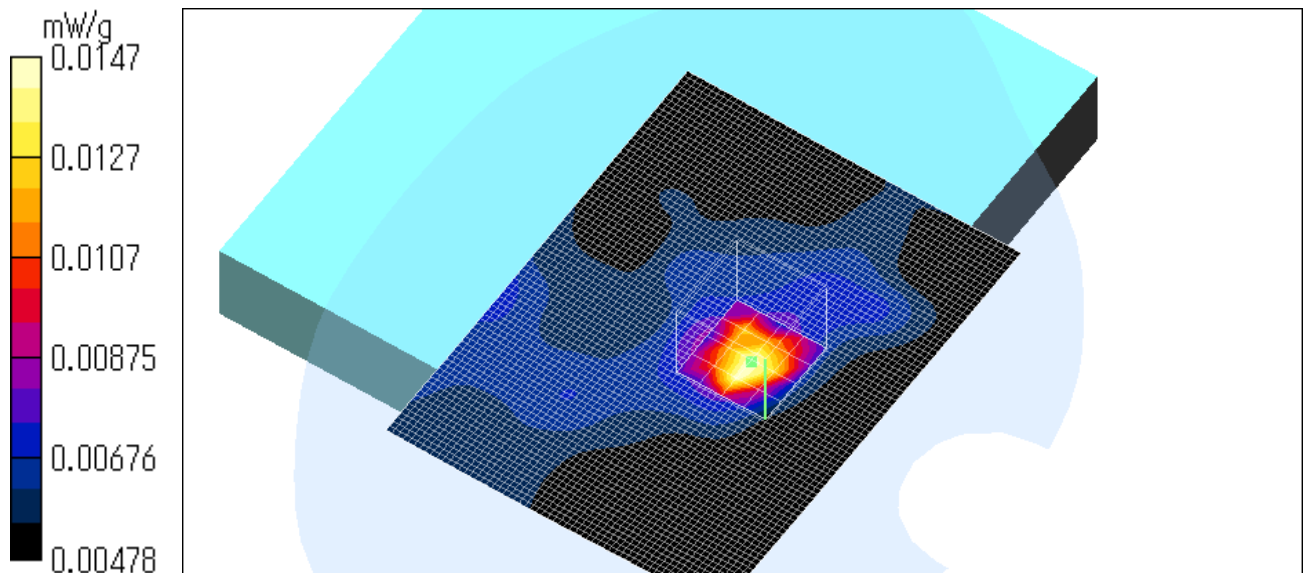
- Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Phantom: SAM 1196
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

**Area Scan (61x81x1):** Measurement grid: dx=20mm, dy=20mm  
Maximum value of SAR = 0.0121 mW/g

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Peak SAR (extrapolated) = 0.0424 W/kg  
**SAR(1 g) = 0.0154 mW/g; SAR(10 g) = 0.00952 mW/g**  
Maximum value of SAR = 0.0147 mW/g

Reference Value = 2.01 V/m  
Power Drift = 0.3 dB

Test Date = 03/25/05  
Ambient Temperature = 25.0degree.c  
Liquid Temperature = Before 24.0degree.C , After 24.0 degree.C



## S1596-01 / Body / Right Top (ANT.0) / 11.b DBPSK / 2437MHz

Crest factor: 1.3

Medium: M2450 ( $\sigma = 1.99$  mho/m,  $\epsilon_r = 50.1$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

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 = 0.0259 mW/g

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

Peak SAR (extrapolated) = 0.0868 W/kg

**SAR(1 g) = 0.0307 mW/g; SAR(10 g) = 0.0198 mW/g**

Maximum value of SAR = 0.0286 mW/g

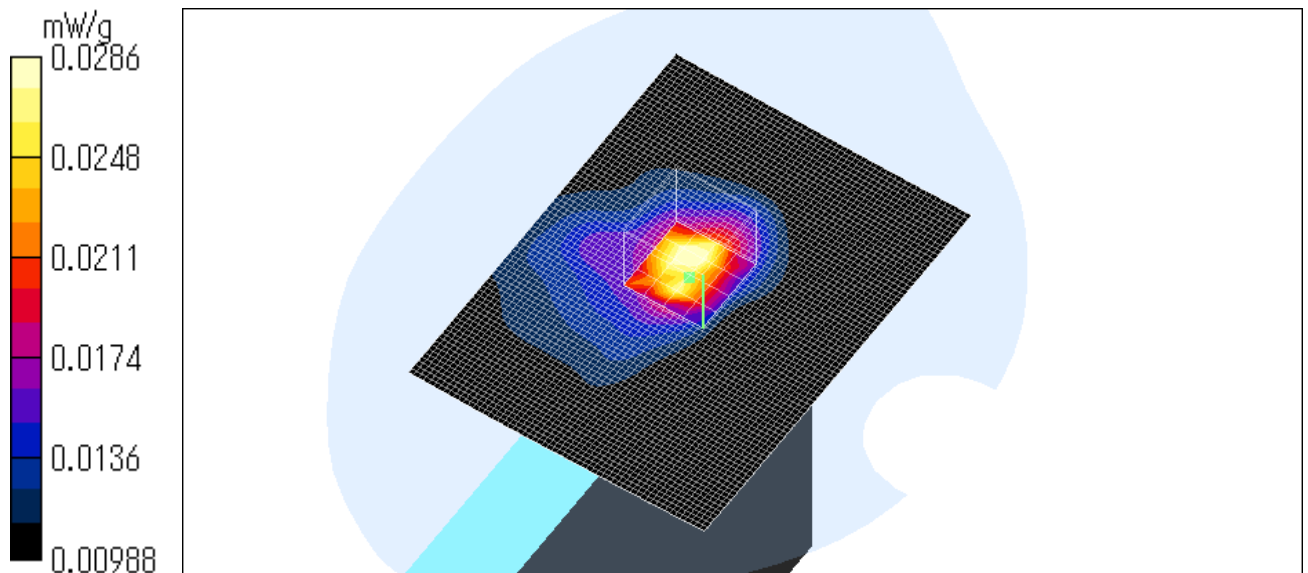
Reference Value = 3.71 V/m

Power Drift = -0.4 dB

Test Date = 03/25/05

Ambient Temperature = 25.0degree.c

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



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## S1596-01 / Body / Right Side (ANT.0) / 11.b DBPSK / 2437MHz

Crest factor: 1.3

Medium: M2450 ( $\sigma = 1.99$  mho/m,  $\epsilon_r = 50.1$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

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 = 0.029 mW/g

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

Peak SAR (extrapolated) = 0.0562 W/kg

**SAR(1 g) = 0.0342 mW/g; SAR(10 g) = 0.0316 mW/g**

Maximum value of SAR = 0.0599 mW/g

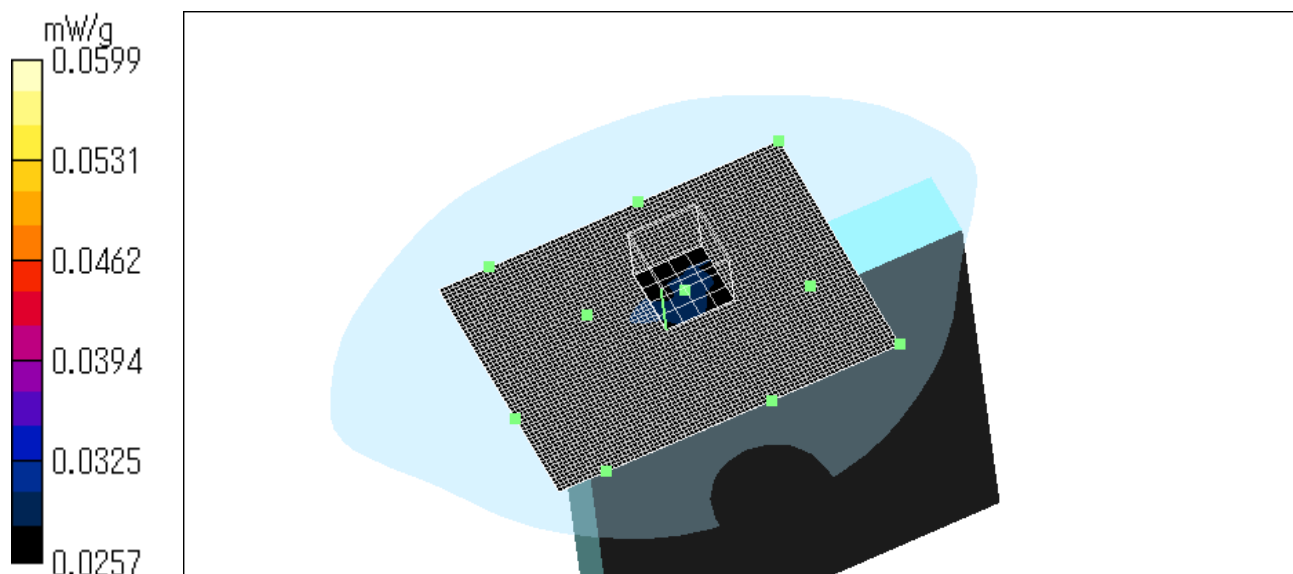
Reference Value = 3.99 V/m

Power Drift = -0.05 dB

Test Date = 03/25/05

Ambient Temperature = 25.0degree.c

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



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## S1596-01 / Body / Right Back (ANT.0) / 11.b DBPSK / 2412MHz

Crest factor: 1.3  
Medium: M2450 ( $\sigma = 1.99$  mho/m,  $\epsilon_r = 50.1$ ,  $\rho = 1000$  kg/m<sup>3</sup>)  
Phantom section: Flat Section

DASY4 Configuration:

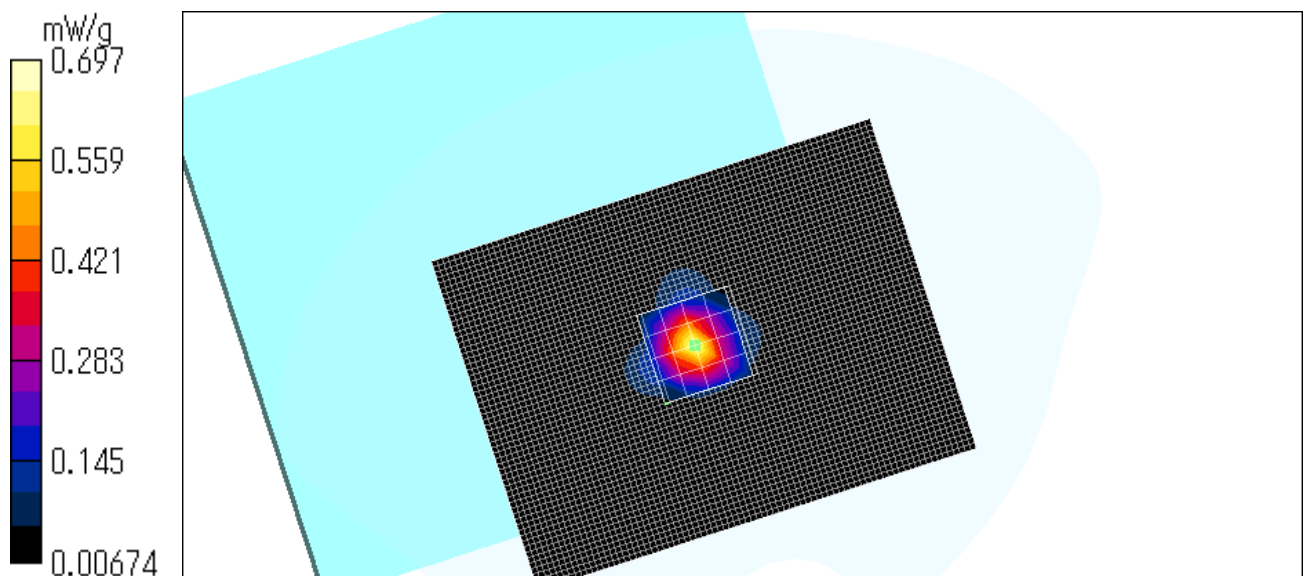
- Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Phantom: SAM 1196
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

**Area Scan (61x81x1):** Measurement grid: dx=20mm, dy=20mm  
Maximum value of SAR = 0.507 mW/g

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Peak SAR (extrapolated) = 1.62 W/kg  
**SAR(1 g) = 0.608 mW/g; SAR(10 g) = 0.25 mW/g**  
Maximum value of SAR = 0.697 mW/g

Reference Value = 18.1 V/m  
Power Drift = -0.4 dB

Test Date = 03/25/05  
Ambient Temperature = 25.0degree.c  
Liquid Temperature = Before 23.9 degree.C , After 23.9 degree.C



### Z-axis at maximum SAR location

**S1596-01 / Body / Right Back (ANT.0) / 11.b DBPSK / 2412MHz**

Crest factor: 1.3

Medium: M2450 ( $\sigma = 1.99$  mho/m,  $\epsilon_r = 50.1$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

Phantom section: Flat Section

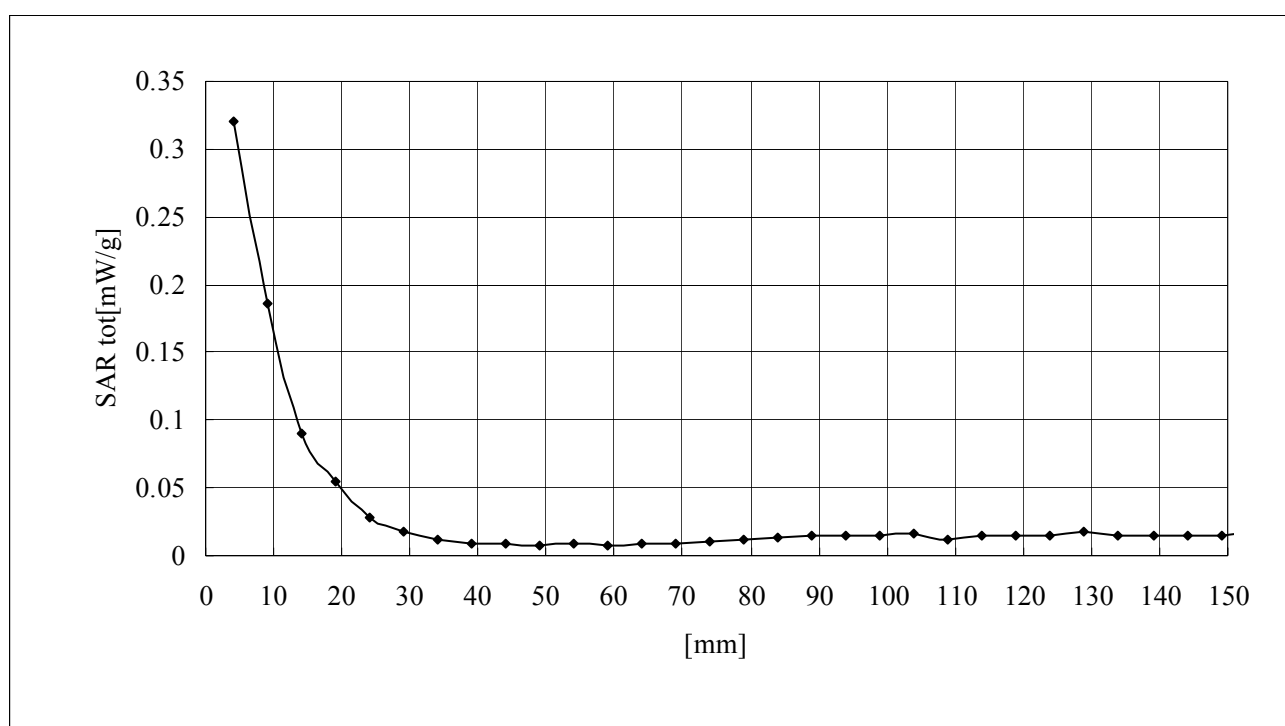
DASY4 Configuration:

- 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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## S1596-01 / Body / Right Back (ANT.0) / 11.b DBPSK / 2462MHz

Crest factor: 1.3

Medium: M2450 ( $\sigma = 1.99$  mho/m,  $\epsilon_r = 50.1$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

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 = 0.268 mW/g

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

Peak SAR (extrapolated) = 0.696 W/kg

**SAR(1 g) = 0.268 mW/g; SAR(10 g) = 0.114 mW/g**

Maximum value of SAR = 0.294 mW/g

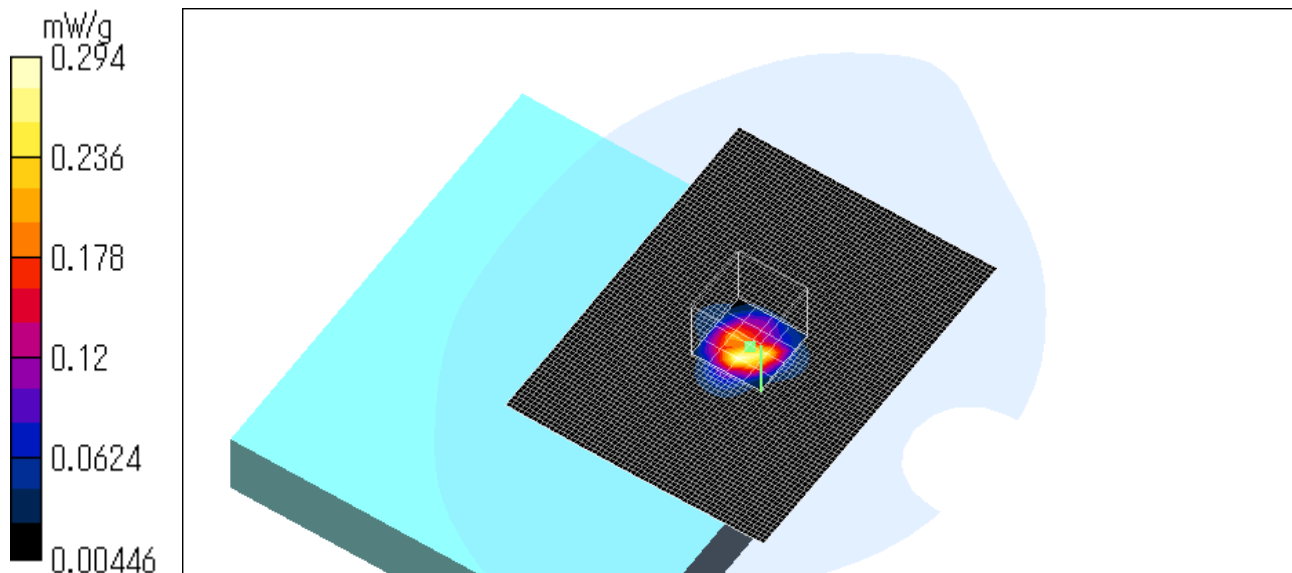
Reference Value = 10.6 V/m

Power Drift = 0.3 dB

Test Date = 03/25/05

Ambient Temperature = 25.0degree.c

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



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## S1596-01 / Body / Right Back (ANT.0) / 11.g BPSK / 2437MHz

Crest factor: 2.2

Medium: M2450 ( $\sigma = 1.99$  mho/m,  $\epsilon_r = 50.1$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

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 = 0.049 mW/g

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

Peak SAR (extrapolated) = 0.0956 W/kg

**SAR(1 g) = 0.0458 mW/g; SAR(10 g) = 0.0221 mW/g**

Maximum value of SAR = 0.0478 mW/g

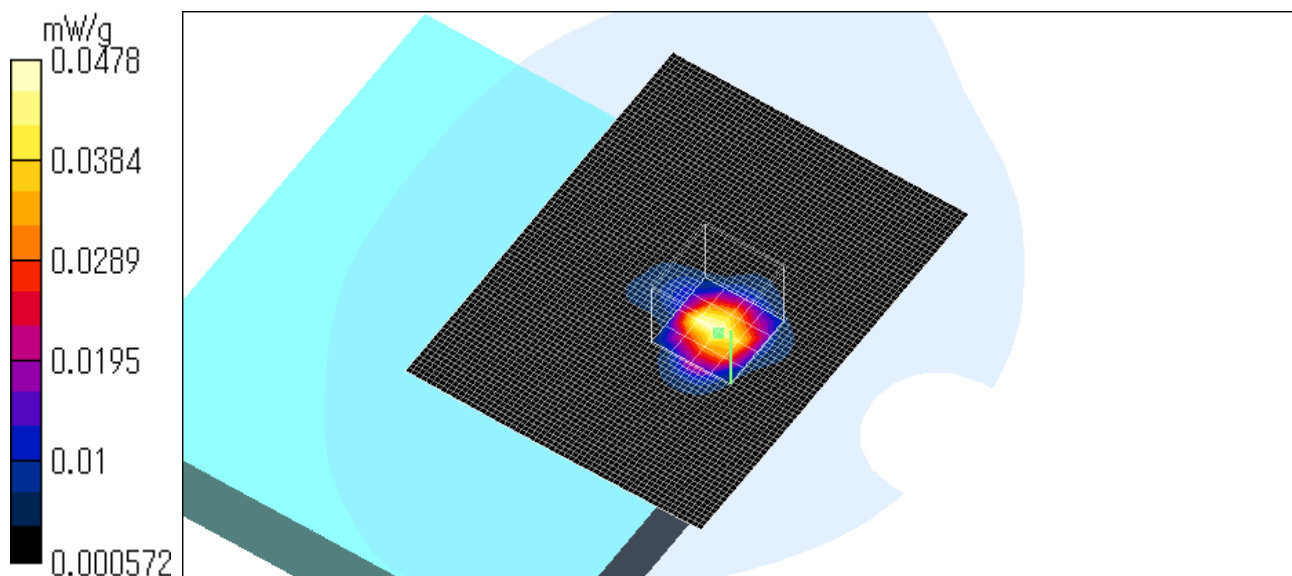
Reference Value = 2.49 V/m

Power Drift = -0.4 dB

Test Date = 03/25/05

Ambient Temperature = 25.0degree.c

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



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## S1596-01 / Body / Right Back (ANT.0) / 11.g QPSK / 2437MHz

Crest factor: 2.2

Medium: M2450 ( $\sigma = 1.99$  mho/m,  $\epsilon_r = 50.1$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

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 = 0.0309 mW/g

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

Peak SAR (extrapolated) = 0.0619 W/kg

**SAR(1 g) = 0.0311 mW/g; SAR(10 g) = 0.0141 mW/g**

Maximum value of SAR = 0.0364 mW/g

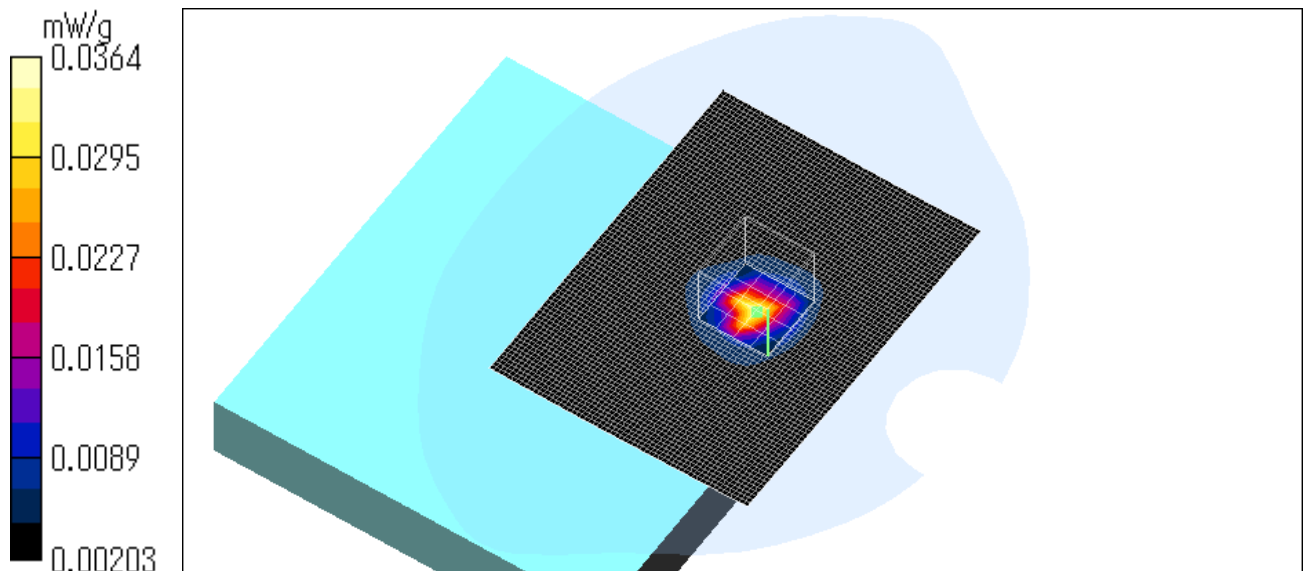
Reference Value = 3.64 V/m

Power Drift = 0.3 dB

Test Date = 03/25/05

Ambient Temperature = 25.0degree.c

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



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**S1596-01 / Body / Right Back (ANT.0) / 11.g 16QAM / 2437MHz**

Crest factor: 2.4

Medium: M2450 ( $\sigma = 1.99$  mho/m,  $\epsilon_r = 50.1$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

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 = 0.016 mW/g

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

Peak SAR (extrapolated) = 0.0569 W/kg

**SAR(1 g) = 0.0163 mW/g; SAR(10 g) = 0.0076 mW/g**

Maximum value of SAR = 0.0154 mW/g

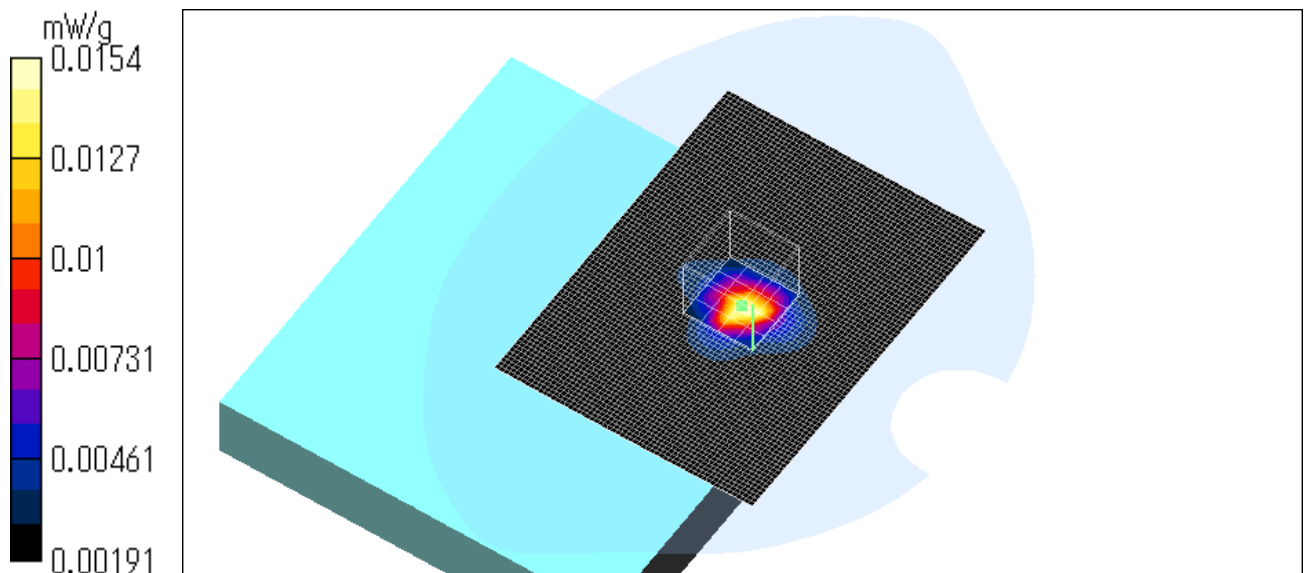
Reference Value = 2.52 V/m

Power Drift = 0.2 dB

Test Date = 03/25/05

Ambient Temperature = 25.0degree.c

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



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**S1596-01 / Body / Right Back (ANT.0) / 11.g 64QAM / 2437MHz**

Crest factor: 2.5

Medium: M2450 ( $\sigma = 1.99$  mho/m,  $\epsilon_r = 50.1$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

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 = 0.0149 mW/g

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

Peak SAR (extrapolated) = 0.0525 W/kg

**SAR(1 g) = 0.0148 mW/g; SAR(10 g) = 0.00581 mW/g**

Maximum value of SAR = 0.0164 mW/g

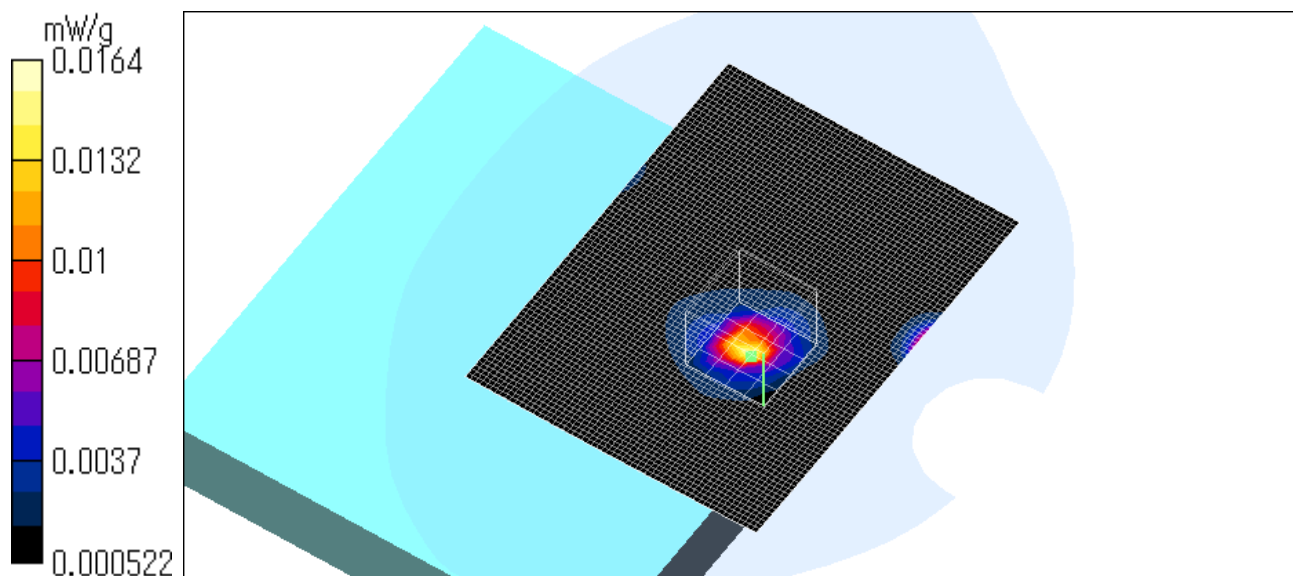
Reference Value = 1.11 V/m

Power Drift = -0.2 dB

Test Date = 03/25/05

Ambient Temperature = 25.0degree.c

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



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## S1596-01 / Body / Right Front (ANT.0) / 11.g BPSK / 2437MHz

Crest factor: 2.2

Medium: M2450 ( $\sigma = 1.99$  mho/m,  $\epsilon_r = 50.1$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

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 = 0.00946 mW/g

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

Peak SAR (extrapolated) = 0.011 W/kg

**SAR(1 g) = 0.0101 mW/g; SAR(10 g) = 0.0093 mW/g**

Maximum value of SAR = 0.0111 mW/g

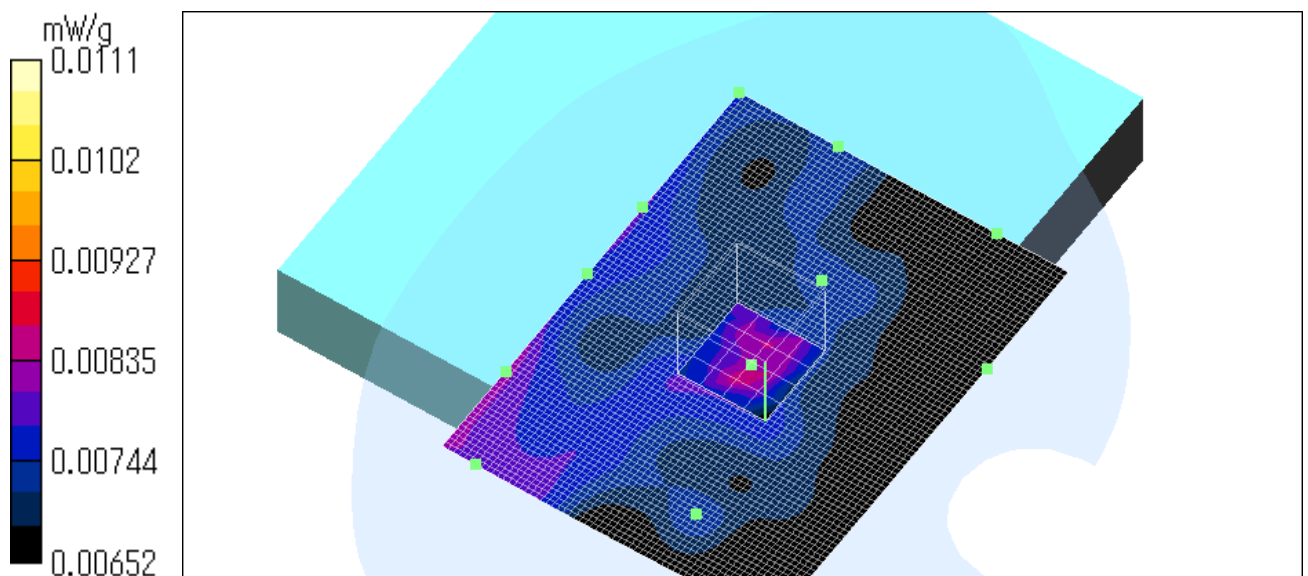
Reference Value = 2.2 V/m

Power Drift = 0.1 dB

Test Date = 03/25/05

Ambient Temperature = 25.0degree.c

Liquid Temperature = Before 23.6 degree.C , After 23.4 degree.C



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## S1596-01 / Body / Right Top (ANT.0) / 11.g BPSK / 2437MHz

Crest factor: 2.2

Medium: M2450 ( $\sigma = 1.99$  mho/m,  $\epsilon_r = 50.1$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

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 = 0.0108 mW/g

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

Peak SAR (extrapolated) = 0.0121 W/kg

**SAR(1 g) = 0.0104 mW/g; SAR(10 g) = 0.00948 mW/g**

Maximum value of SAR = 0.0116 mW/g

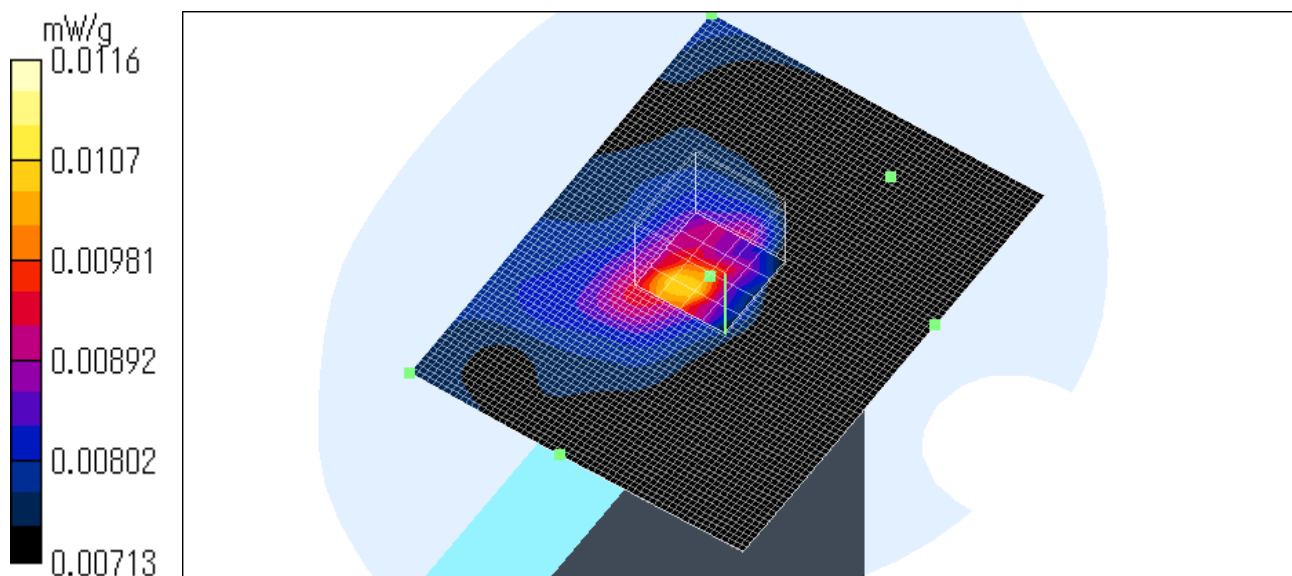
Reference Value = 2.16 V/m

Power Drift = 0.4 dB

Test Date = 03/25/05

Ambient Temperature = 25.0degree.c

Liquid Temperature = Before 23.8 degree.C , After 23.7 degree.C



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## S1596-01 / Body / Right Side (ANT.0) / 11.g BPSK / 2437MHz

Crest factor: 2.2

Medium: M2450 ( $\sigma = 1.99$  mho/m,  $\epsilon_r = 50.1$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

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 = 0.022 mW/g

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

Peak SAR (extrapolated) = 0.0334 W/kg

**SAR(1 g) = 0.0305 mW/g; SAR(10 g) = 0.0283 mW/g**

Maximum value of SAR = 0.0338 mW/g

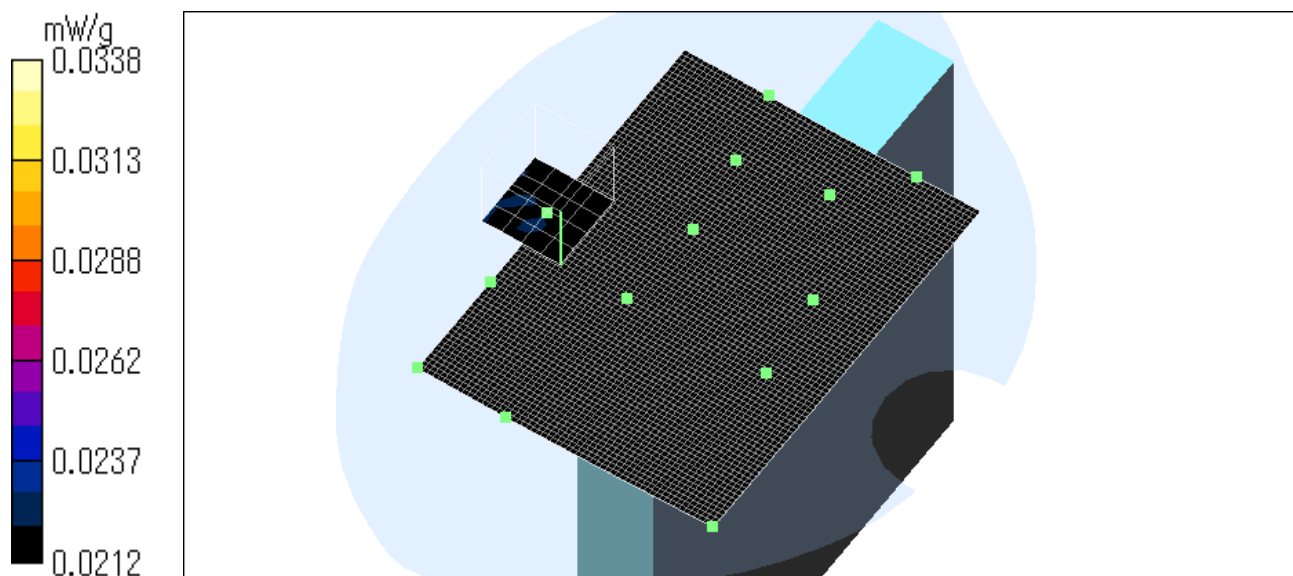
Reference Value = 3.4 V/m

Power Drift = 0.006 dB

Test Date = 03/25/05

Ambient Temperature = 25.0degree.c

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



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## S1596-01 / Body / Right Back (ANT.0) / 11.g BPSK / 2412MHz

Crest factor: 2.2

Medium: M2450 ( $\sigma = 1.99$  mho/m,  $\epsilon_r = 50.1$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

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 = 0.0256 mW/g

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

Peak SAR (extrapolated) = 0.098 W/kg

**SAR(1 g) = 0.0303 mW/g; SAR(10 g) = 0.0124 mW/g**

Maximum value of SAR = 0.0315 mW/g

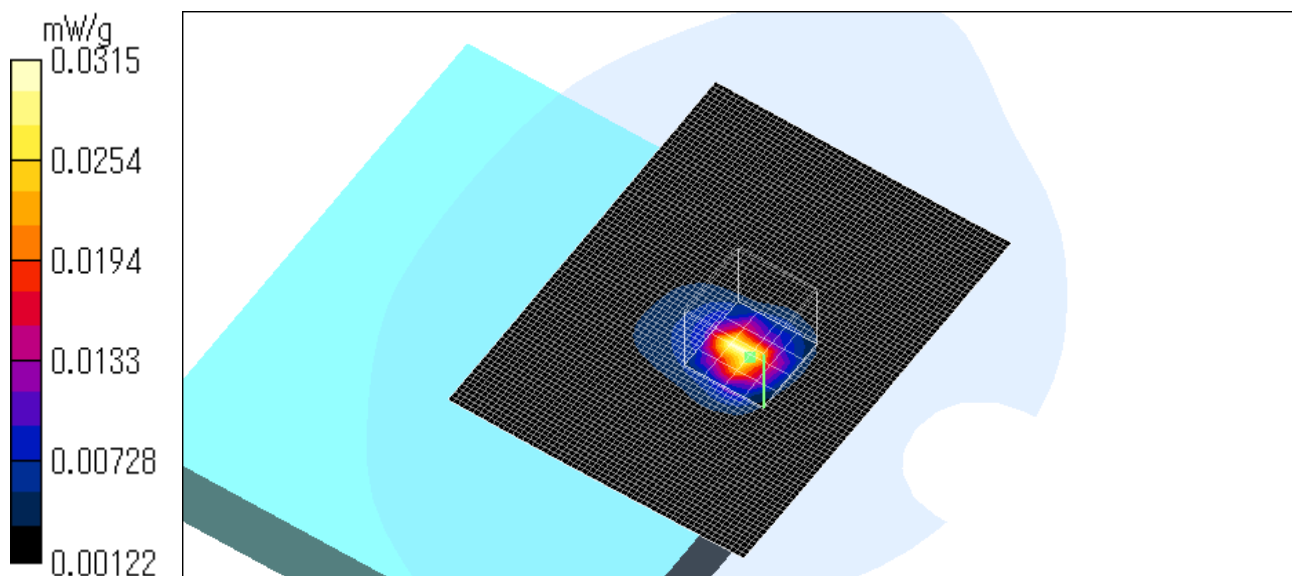
Reference Value = 2.33 V/m

Power Drift = -0.4 dB

Test Date = 03/25/05

Ambient Temperature = 25.0degree.c

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



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## S1596-01 / Body / Right Back (ANT.0) / 11.g BPSK / 2462MHz

Crest factor: 2.2

Medium: M2450 ( $\sigma = 1.99$  mho/m,  $\epsilon_r = 50.1$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

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) = 0.196 W/kg

**SAR(1 g) = 0.0419 mW/g; SAR(10 g) = 0.0171 mW/g**

Maximum value of SAR = 0.0381 mW/g

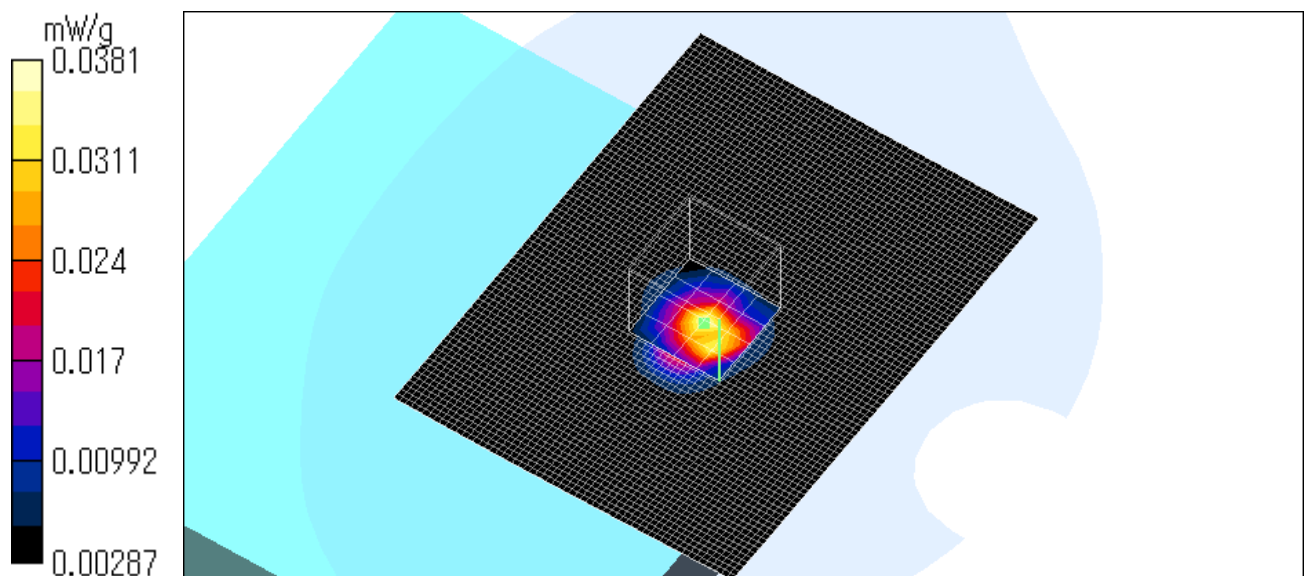
Reference Value = 3.48 V/m

Power Drift = -0.3 dB

Test Date = 03/25/05

Ambient Temperature = 25.0degree.c

Liquid Temperature = Before 24.2 degree.C , After 24.0 degree.C



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## S1596-01 / Body / Right Back (ANT.0) / 11.b DBPSK / BT OFF

Crest factor: 1.3  
Medium: M2450 ( $\sigma = 1.99$  mho/m,  $\epsilon_r = 50.1$ ,  $\rho = 1000$  kg/m<sup>3</sup>)  
Phantom section: Flat Section

DASY4 Configuration:

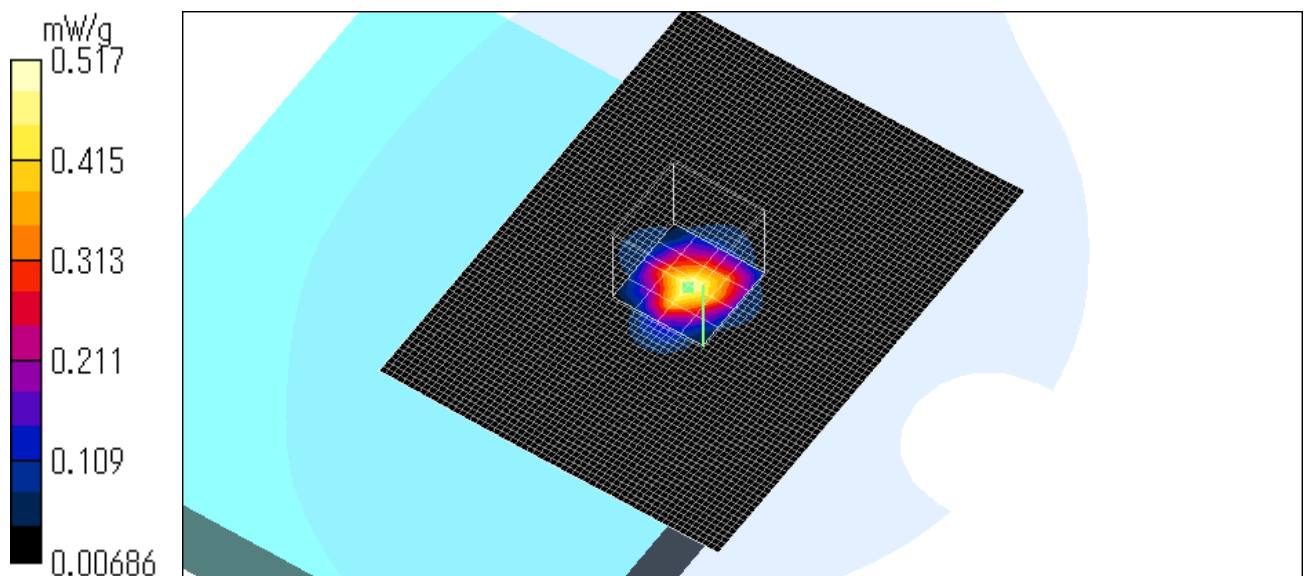
- Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Phantom: SAM 1196
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

**Area Scan (61x81x1):** Measurement grid: dx=20mm, dy=20mm  
Maximum value of SAR = 0.381 mW/g

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Peak SAR (extrapolated) = 1.47 W/kg  
**SAR(1 g) = 0.498 mW/g; SAR(10 g) = 0.216 mW/g**  
Maximum value of SAR = 0.517 mW/g

Reference Value = 16.7 V/m  
Power Drift = -0.4 dB

Test Date = 03/25/05  
Ambient Temperature = 25.0degree.c  
Liquid Temperature = Before 24.0degree.C , After 24.0 degree.C



## S1596-01 / Body / Left Front (ANT.1) / 11.b DBPSK / 2437MHz

Crest factor: 1.3

Medium: M2450 ( $\sigma = 1.97$  mho/m,  $\epsilon_r = 50.1$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

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 = 0.139 mW/g

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

Peak SAR (extrapolated) = 0.293 W/kg

**SAR(1 g) = 0.117 mW/g; SAR(10 g) = 0.0652 mW/g**

Maximum value of SAR = 0.132 mW/g

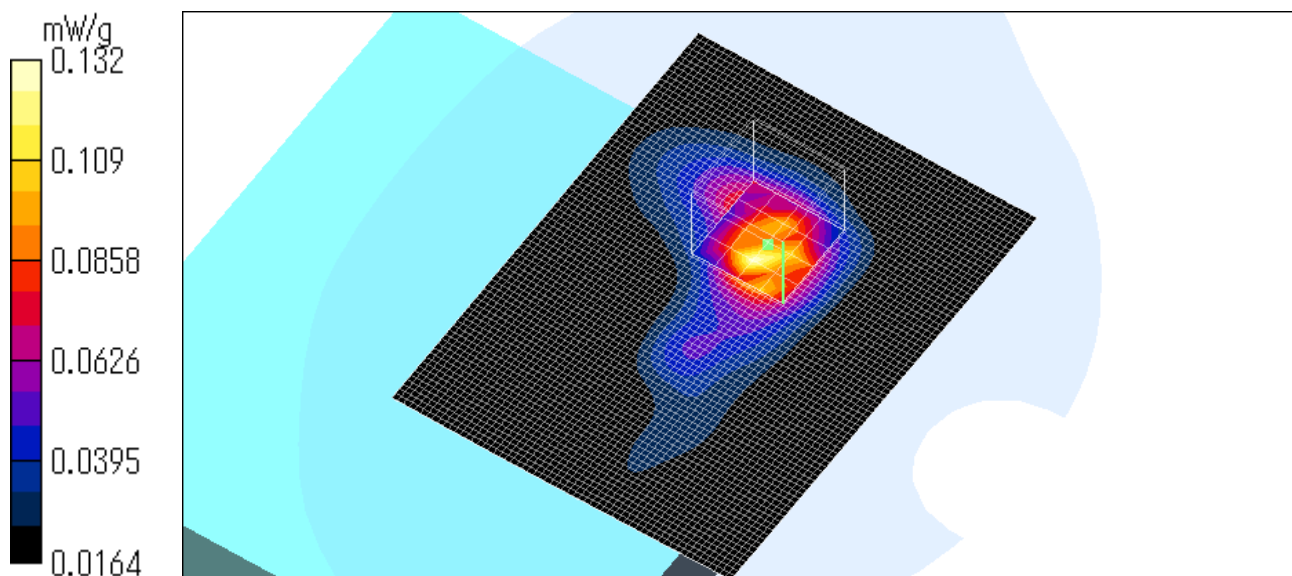
Reference Value = 5.73 V/m

Power Drift = 0.02 dB

Test Date = 03/28/05

Ambient Temperature = 25.0degree.c

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



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**S1596-01 / Body / Left Front (ANT.1) / 11.b DQPSK / 2437MHz**

Crest factor: 1.5  
Medium: M2450 ( $\sigma = 1.97$  mho/m,  $\epsilon_r = 50.1$ ,  $\rho = 1000$  kg/m<sup>3</sup>)  
Phantom section: Flat Section

DASY4 Configuration:

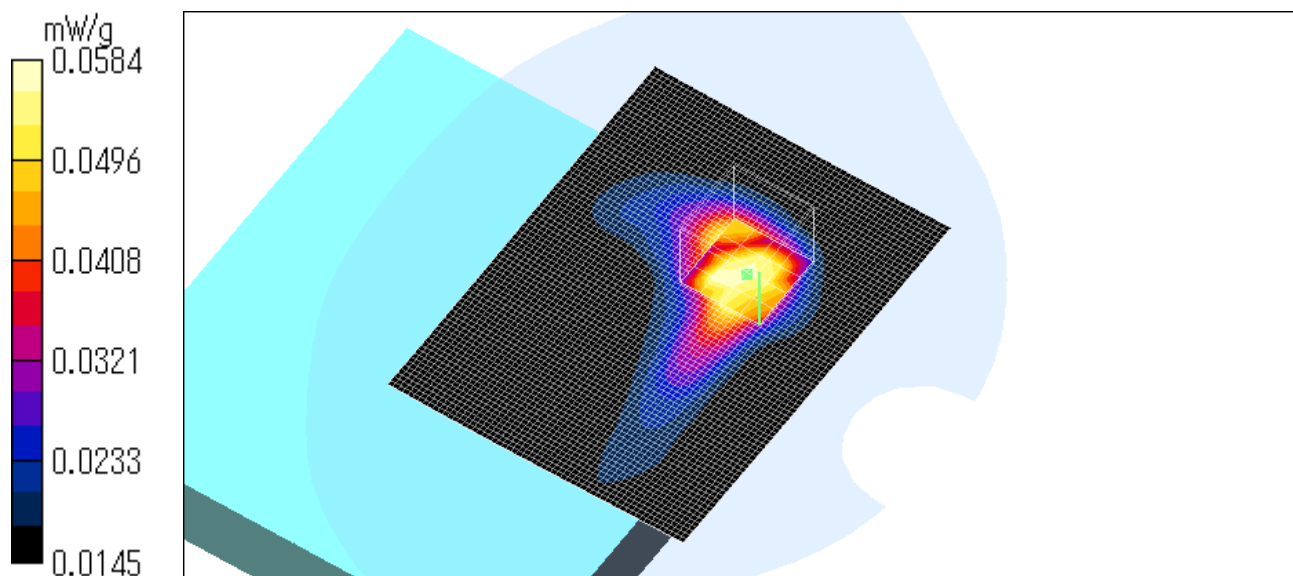
- Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Phantom: SAM 1196
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

**Area Scan (61x81x1):** Measurement grid: dx=20mm, dy=20mm  
Maximum value of SAR = 0.0675 mW/g

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Peak SAR (extrapolated) = 0.152 W/kg  
**SAR(1 g) = 0.0604 mW/g; SAR(10 g) = 0.0386 mW/g**  
Maximum value of SAR = 0.0584 mW/g

Reference Value = 3.22 V/m  
Power Drift = -0.01 dB

Test Date = 03/28/05  
Ambient Temperature = 25.0degree.c  
Liquid Temperature = Before 24.2 degree.C , After 24.2 degree.C



**S1596-01 / Body / Left Front (ANT.1) / 11.b CCK (5.5M) / 2437MHz**

Crest factor: 1.9  
Medium: M2450 ( $\sigma = 1.97$  mho/m,  $\epsilon_r = 50.1$ ,  $\rho = 1000$  kg/m<sup>3</sup>)  
Phantom section: Flat Section

DASY4 Configuration:

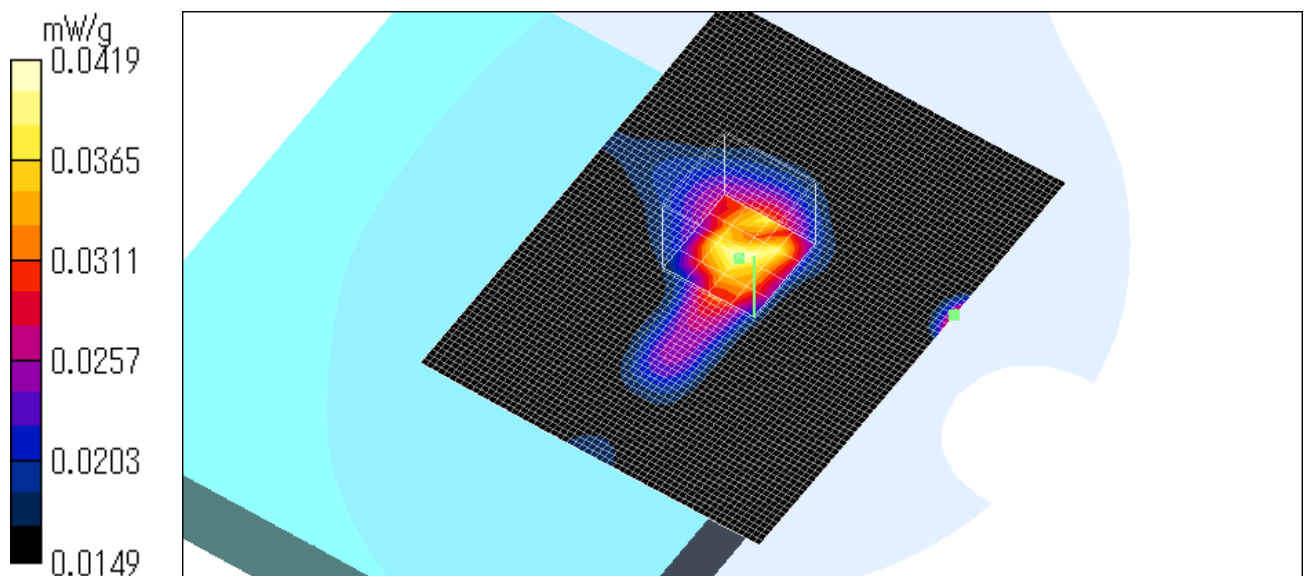
- Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Phantom: SAM 1196
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

**Area Scan (61x81x1):** Measurement grid: dx=20mm, dy=20mm  
Maximum value of SAR = 0.0449 mW/g

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Peak SAR (extrapolated) = 0.0689 W/kg  
**SAR(1 g) = 0.0396 mW/g; SAR(10 g) = 0.0276 mW/g**  
Maximum value of SAR = 0.0419 mW/g

Reference Value = 4.73 V/m  
Power Drift = -0.4 dB

Test Date = 03/28/05  
Ambient Temperature = 25.0degree.c  
Liquid Temperature = Before 24.2 degree.C , After 24.3 degree.C



**S1596-01 / Body / Left Front (ANT.1) / 11.b CCK (11M) / 2437MHz**

Crest factor: 2.3  
Medium: M2450 ( $\sigma = 1.97$  mho/m,  $\epsilon_r = 50.1$ ,  $\rho = 1000$  kg/m<sup>3</sup>)  
Phantom section: Flat Section

DASY4 Configuration:

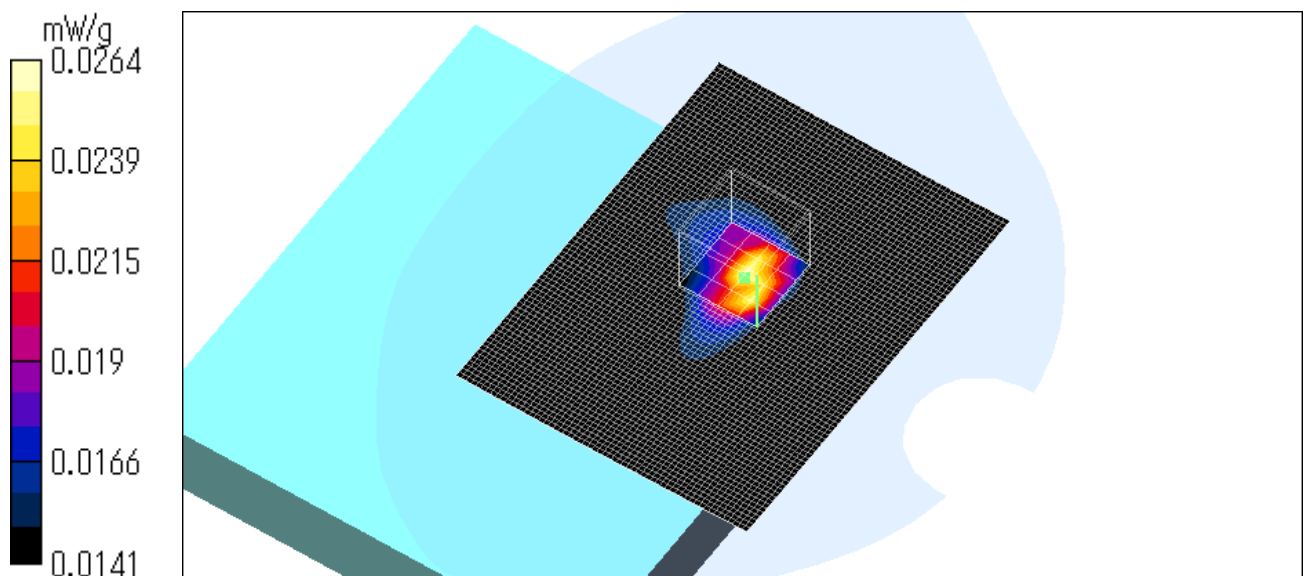
- Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Phantom: SAM 1196
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

**Area Scan (61x81x1):** Measurement grid: dx=20mm, dy=20mm  
Maximum value of SAR = 0.0229 mW/g

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Peak SAR (extrapolated) = 0.0729 W/kg  
**SAR(1 g) = 0.0271 mW/g; SAR(10 g) = 0.0194 mW/g**  
Maximum value of SAR = 0.0264 mW/g

Reference Value = 3.58 V/m  
Power Drift = 0.4 dB

Test Date = 03/28/05  
Ambient Temperature = 25.0degree.c  
Liquid Temperature = Before 24.2 degree.C , After 24.2 degree.C



**S1596-01 / Body / Left Back (ANT.1) / 11.b DBPSK / 2437MHz**

Crest factor: 1.3  
Medium: M2450 ( $\sigma = 1.97$  mho/m,  $\epsilon_r = 50.1$ ,  $\rho = 1000$  kg/m<sup>3</sup>)  
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

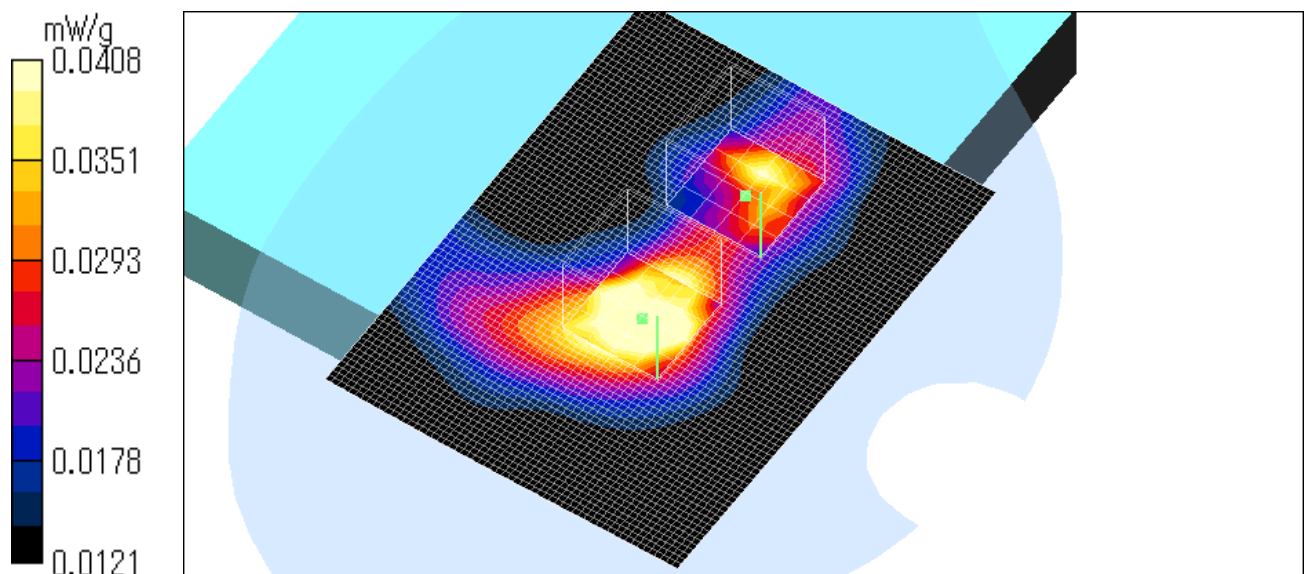
**Area Scan (61x81x1):** Measurement grid: dx=20mm, dy=20mm  
Maximum value of SAR = 0.0492 mW/g

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Peak SAR (extrapolated) = 0.0903 W/kg  
**SAR(1 g) = 0.0505 mW/g; SAR(10 g) = 0.0311 mW/g**  
Maximum value of SAR = 0.0552 mW/g

**Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Peak SAR (extrapolated) = 0.0696 W/kg  
**SAR(1 g) = 0.037 mW/g; SAR(10 g) = 0.0243 mW/g**  
Maximum value of SAR = 0.0408 mW/g

Reference Value = 4.73 V/m  
Power Drift = 0.3 dB

Test Date = 03/28/05  
Ambient Temperature = 25.0degree.c  
Liquid Temperature = Before 24.0degree.C , After 24.0 degree.C



**S1596-01 / Body / Left Top (ANT.1) / 11.b DBPSK / 2437MHz**

Crest factor: 1.3

Medium: M2450 ( $\sigma = 1.97$  mho/m,  $\epsilon_r = 50.1$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

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 = 0.0785 mW/g

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

Peak SAR (extrapolated) = 0.124 W/kg

**SAR(1 g) = 0.0661 mW/g; SAR(10 g) = 0.0384 mW/g**

Maximum value of SAR = 0.0751 mW/g

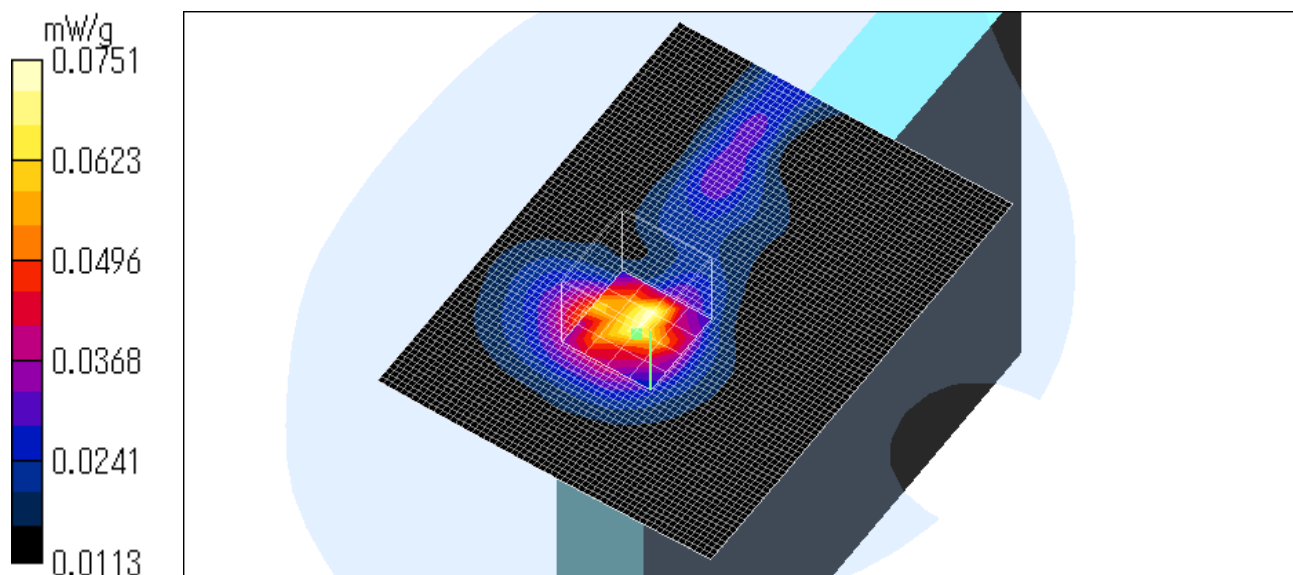
Reference Value = 4.11 V/m

Power Drift = -0.3 dB

Test Date = 03/28/05

Ambient Temperature = 25.0degree.c

Liquid Temperature = Before 24.1 degree.C , After 24.0 degree.C



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**S1596-01 / Body / Left Side (ANT.1) / 11.b DBPSK / 2437MHz**

Crest factor: 1.3  
Medium: M2450 ( $\sigma = 1.97$  mho/m,  $\epsilon_r = 50.1$ ,  $\rho = 1000$  kg/m<sup>3</sup>)  
Phantom section: Flat Section

DASY4 Configuration:

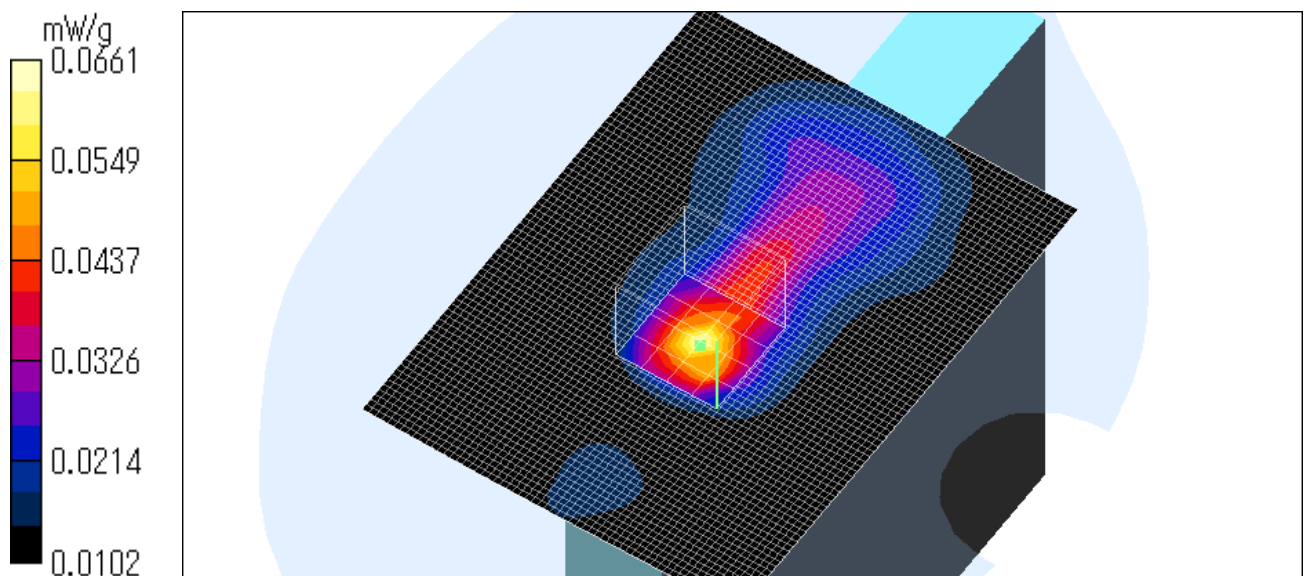
- Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Phantom: SAM 1196
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

**Area Scan (61x81x1):** Measurement grid: dx=20mm, dy=20mm  
Maximum value of SAR = 0.0553 mW/g

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Peak SAR (extrapolated) = 0.107 W/kg  
**SAR(1 g) = 0.0576 mW/g; SAR(10 g) = 0.0333 mW/g**  
Maximum value of SAR = 0.0661 mW/g

Reference Value = 5.48 V/m  
Power Drift = 0.04 dB

Test Date = 03/28/05  
Ambient Temperature = 25.0degree.c  
Liquid Temperature = Before 24.0degree.C , After 24.0 degree.C



## S1596-01 / Body / Left Front (ANT.1) / 11.b DBPSK / 2412MHz

Crest factor: 1.3

Medium: M2450 ( $\sigma = 1.97$  mho/m,  $\epsilon_r = 50.1$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

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 = 0.114 mW/g

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

Peak SAR (extrapolated) = 0.252 W/kg

**SAR(1 g) = 0.107 mW/g; SAR(10 g) = 0.0626 mW/g**

Maximum value of SAR = 0.115 mW/g

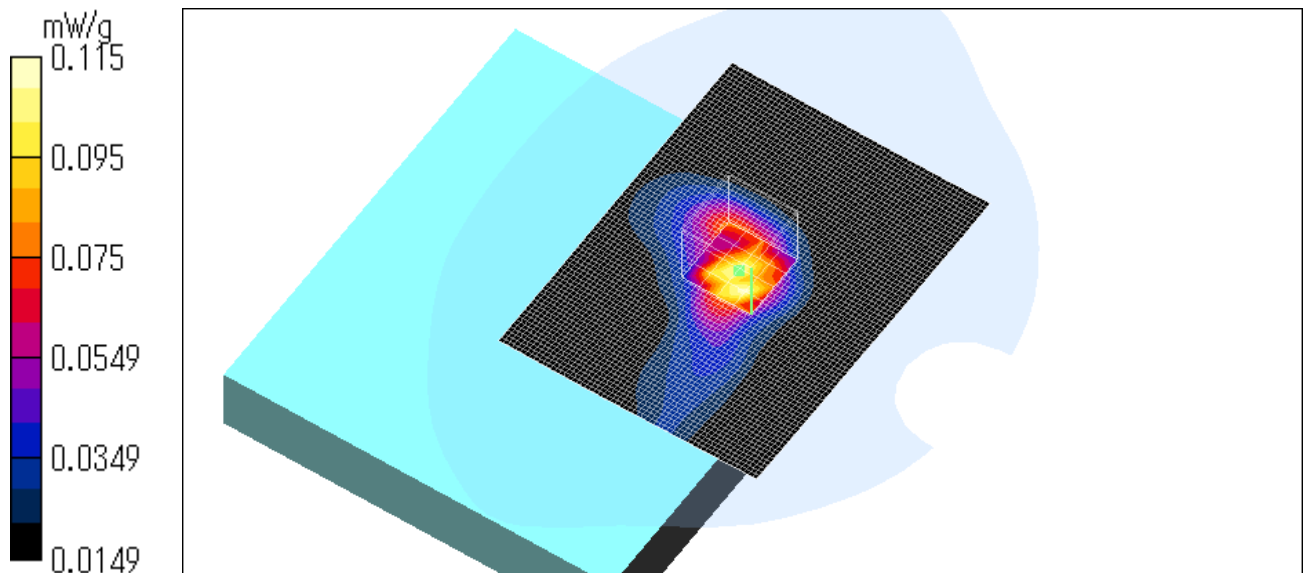
Reference Value = 8.61 V/m

Power Drift = -0.2 dB

Test Date = 03/28/05

Ambient Temperature = 25.0degree.c

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



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**S1596-01 / Body / Left Front (ANT.1) / 11.b DBPSK / 2462MHz**

Crest factor: 1.3  
Medium: M2450 ( $\sigma = 1.97$  mho/m,  $\epsilon_r = 50.1$ ,  $\rho = 1000$  kg/m<sup>3</sup>)  
Phantom section: Flat Section

DASY4 Configuration:

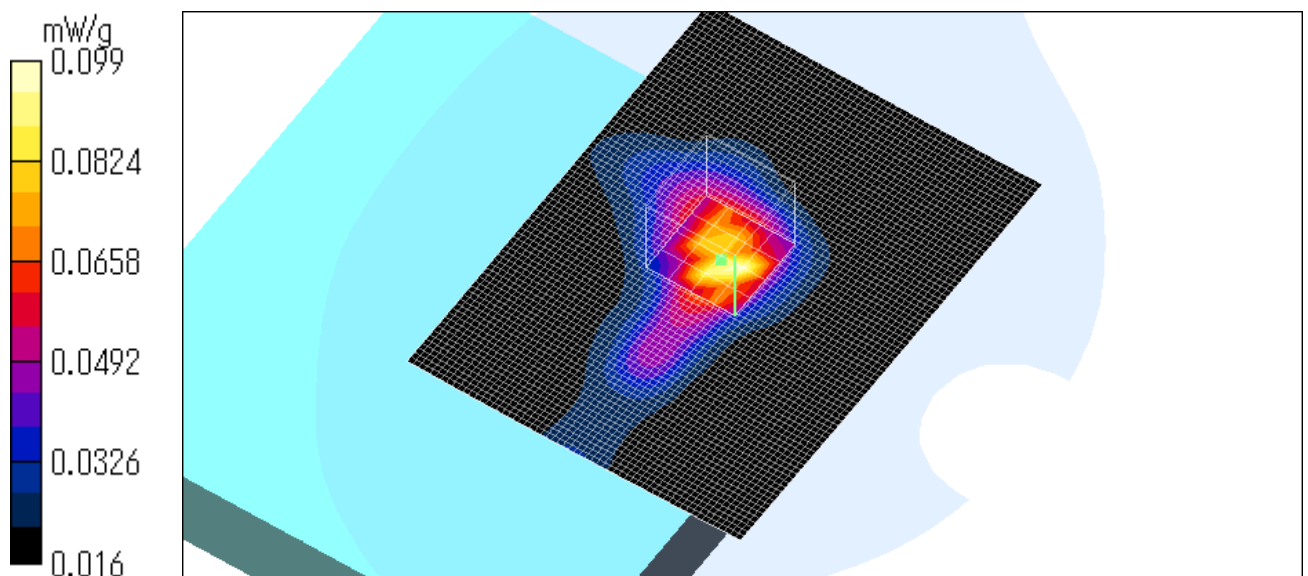
- Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Phantom: SAM 1196
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

**Area Scan (61x81x1):** Measurement grid: dx=20mm, dy=20mm  
Maximum value of SAR = 0.102 mW/g

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Peak SAR (extrapolated) = 0.204 W/kg  
**SAR(1 g) = 0.0857 mW/g; SAR(10 g) = 0.052 mW/g**  
Maximum value of SAR = 0.099 mW/g

Reference Value = 7.68 V/m  
Power Drift = -0.1 dB

Test Date = 03/28/05  
Ambient Temperature = 25.0degree.c  
Liquid Temperature = Before 24.3 degree.C , After 24.3 degree.C



## S1596-01 / Body / Left Front (ANT.1) / 11.g BPSK / 2437MHz

Crest factor: 2.2  
Medium: M2450 ( $\sigma = 1.97$  mho/m,  $\epsilon_r = 50.1$ ,  $\rho = 1000$  kg/m<sup>3</sup>)  
Phantom section: Flat Section

DASY4 Configuration:

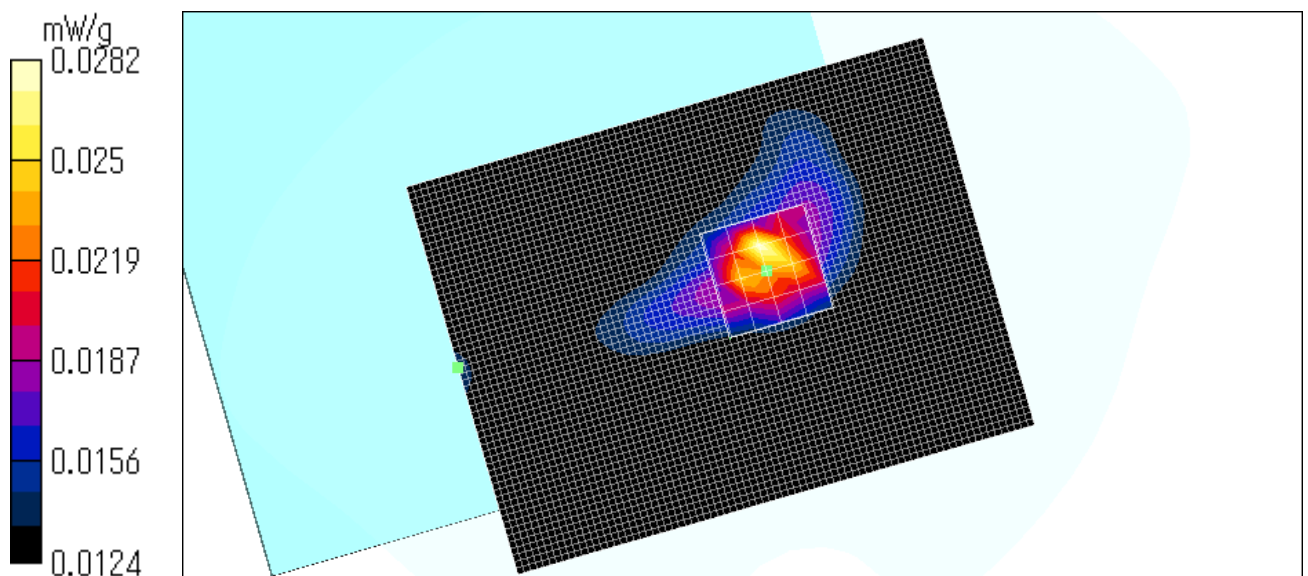
- Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Phantom: SAM 1196
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

**Area Scan (61x81x1):** Measurement grid: dx=20mm, dy=20mm  
Maximum value of SAR = 0.0211 mW/g

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Peak SAR (extrapolated) = 0.0478 W/kg  
**SAR(1 g) = 0.0255 mW/g; SAR(10 g) = 0.019 mW/g**  
Maximum value of SAR = 0.0282 mW/g

Reference Value = 3.33 V/m  
Power Drift = -0.1 dB

Test Date = 03/28/05  
Ambient Temperature = 25.0degree.c  
Liquid Temperature = Before 24.5 degree.C , After 24.5 degree.C



## S1596-01 / Body / Left Front (ANT.1) / 11.g QPSK / 2437MHz

Crest factor: 2.2

Medium: M2450 ( $\sigma = 1.97$  mho/m,  $\epsilon_r = 50.1$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

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 = 0.0206 mW/g

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

Peak SAR (extrapolated) = 0.0232 W/kg

**SAR(1 g) = 0.019 mW/g; SAR(10 g) = 0.017 mW/g**

Maximum value of SAR = 0.0194 mW/g

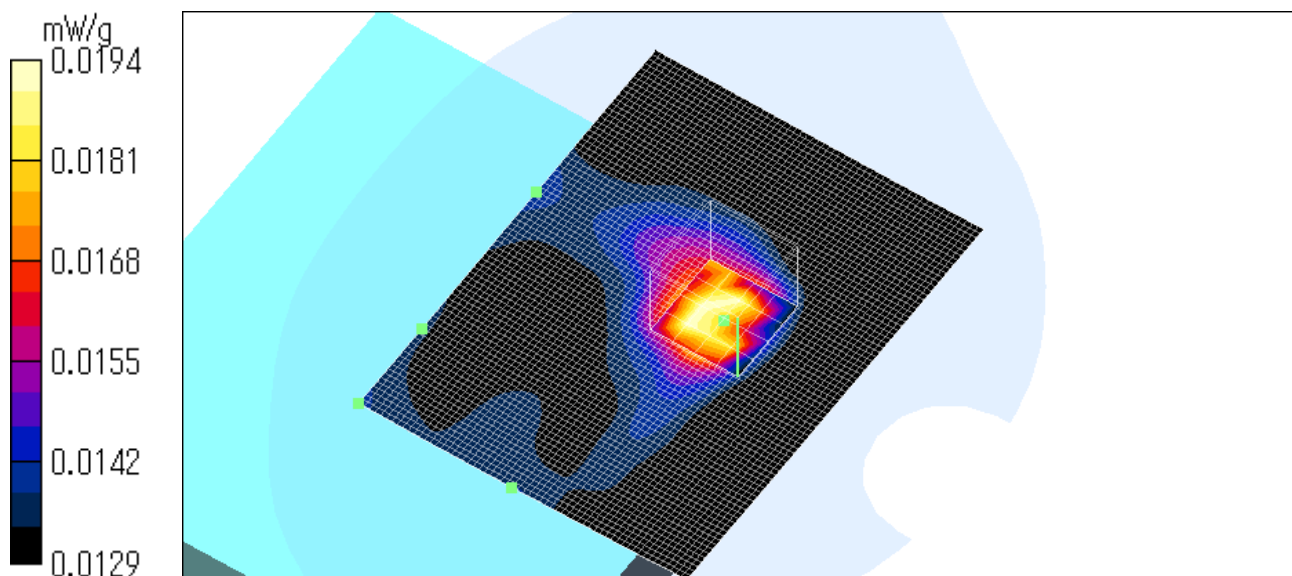
Reference Value = 3 V/m

Power Drift = 0.2 dB

Test Date = 03/28/05

Ambient Temperature = 25.0degree.c

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



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**S1596-01 / Body / Left Front (ANT.1) / 11.g 16QAM / 2437MHz**

Crest factor: 2.4  
Medium: M2450 ( $\sigma = 1.97$  mho/m,  $\epsilon_r = 50.1$ ,  $\rho = 1000$  kg/m<sup>3</sup>)  
Phantom section: Flat Section

DASY4 Configuration:

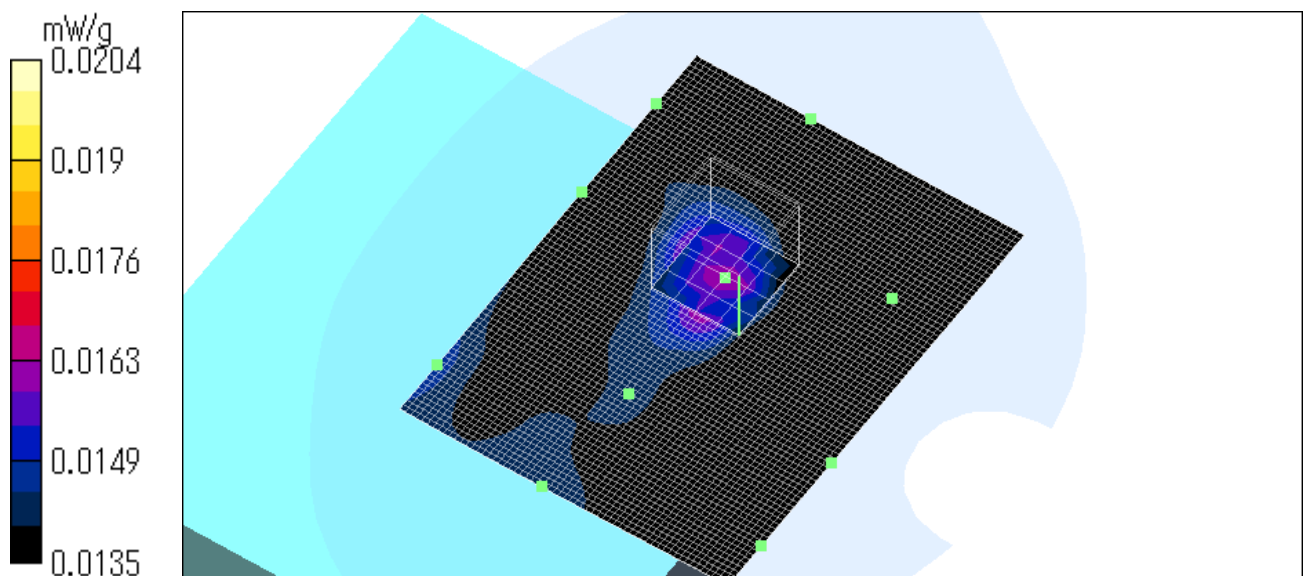
- Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Phantom: SAM 1196
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

**Area Scan (61x81x1):** Measurement grid: dx=20mm, dy=20mm  
Maximum value of SAR = 0.0177 mW/g

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Peak SAR (extrapolated) = 0.0201 W/kg  
**SAR(1 g) = 0.0183 mW/g; SAR(10 g) = 0.0172 mW/g**  
Maximum value of SAR = 0.0204 mW/g

Reference Value = 2.96 V/m  
Power Drift = -0.1 dB

Test Date = 03/28/05  
Ambient Temperature = 25.0degree.c  
Liquid Temperature = Before 24.2 degree.C , After 24.2 degree.C



**S1596-01 / Body / Left Front (ANT.1) / 11.g 64QAM / 2437MHz**

Crest factor: 2.5  
Medium: M2450 ( $\sigma = 1.97$  mho/m,  $\epsilon_r = 50.1$ ,  $\rho = 1000$  kg/m<sup>3</sup>)  
Phantom section: Flat Section

DASY4 Configuration:

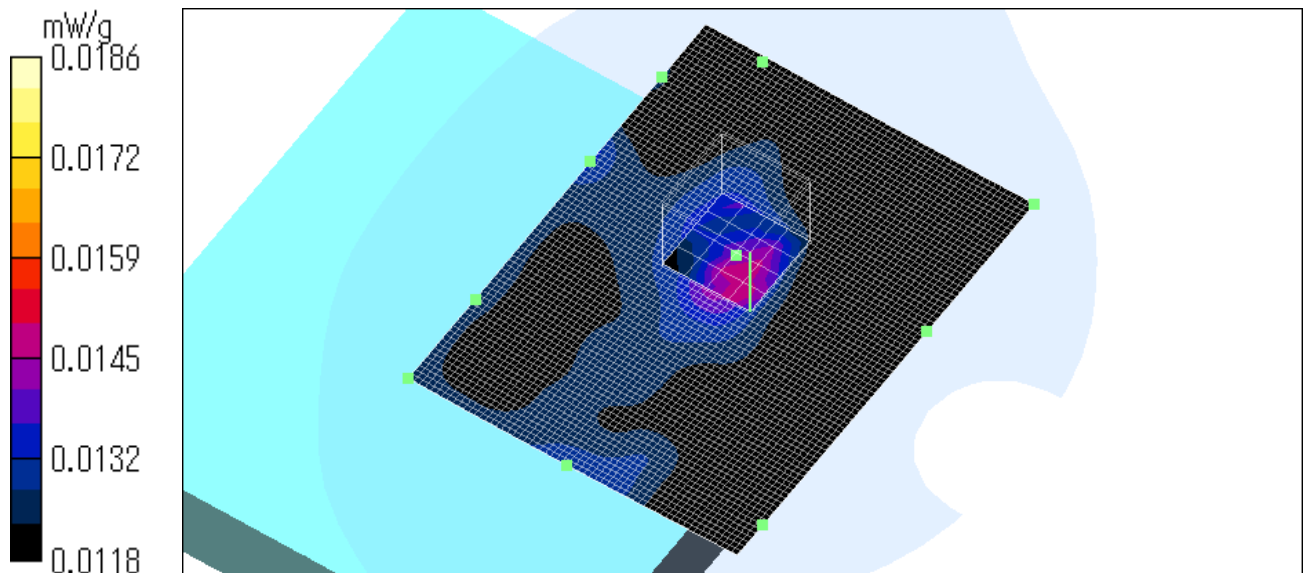
- Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Phantom: SAM 1196
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

**Area Scan (61x81x1):** Measurement grid: dx=20mm, dy=20mm  
Maximum value of SAR = 0.015 mW/g

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Peak SAR (extrapolated) = 0.0183 W/kg  
**SAR(1 g) = 0.0166 mW/g; SAR(10 g) = 0.0155 mW/g**  
Maximum value of SAR = 0.0186 mW/g

Reference Value = 2.79 V/m  
Power Drift = 0.004 dB

Test Date = 03/28/05  
Ambient Temperature = 25.0degree.c  
Liquid Temperature = Before 24.2 degree.C , After 24.2 degree.C



## S1596-01 / Body / Left Back (ANT.1) / 11.g BPSK / 2437MHz

Crest factor: 2.2  
Medium: M2450 ( $\sigma = 1.97$  mho/m,  $\epsilon_r = 50.1$ ,  $\rho = 1000$  kg/m<sup>3</sup>)  
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

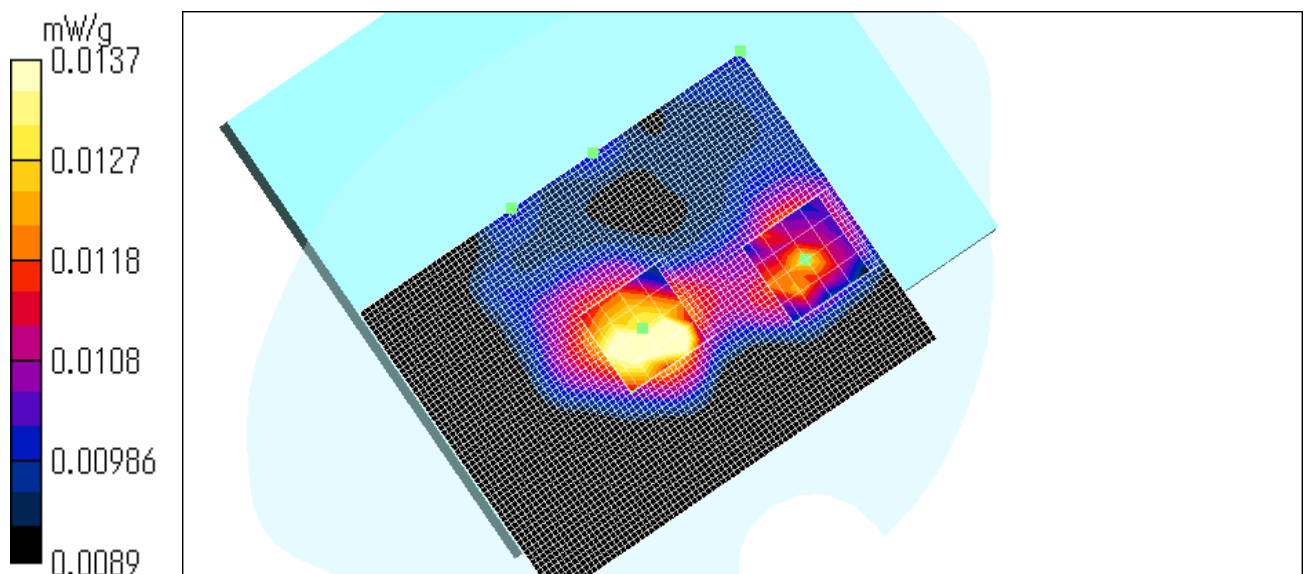
**Area Scan (61x81x1):** Measurement grid: dx=20mm, dy=20mm  
Maximum value of SAR = 0.0152 mW/g

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Peak SAR (extrapolated) = 0.02 W/kg  
**SAR(1 g) = 0.0146 mW/g; SAR(10 g) = 0.0123 mW/g**  
Maximum value of SAR = 0.0158 mW/g

**Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Peak SAR (extrapolated) = 0.0167 W/kg  
**SAR(1 g) = 0.0124 mW/g; SAR(10 g) = 0.0116 mW/g**  
Maximum value of SAR = 0.0137 mW/g

Reference Value = 2.93 V/m  
Power Drift = -0.3 dB

Test Date = 03/28/05  
Ambient Temperature = 25.0degree.c  
Liquid Temperature = Before 24.2 degree.C , After 24.2 degree.C



**S1596-01 / Body / Left Top (ANT.1) / 11.g BPSK / 2437MHz**

Crest factor: 2.2

Medium: M2450 ( $\sigma = 1.97$  mho/m,  $\epsilon_r = 50.1$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

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 = 0.017 mW/g

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

Peak SAR (extrapolated) = 0.106 W/kg

**SAR(1 g) = 0.0198 mW/g; SAR(10 g) = 0.0136 mW/g**

Maximum value of SAR = 0.0169 mW/g

**Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 0.0143 W/kg

**SAR(1 g) = 0.0118 mW/g; SAR(10 g) = 0.0111 mW/g**

Maximum value of SAR = 0.0132 mW/g

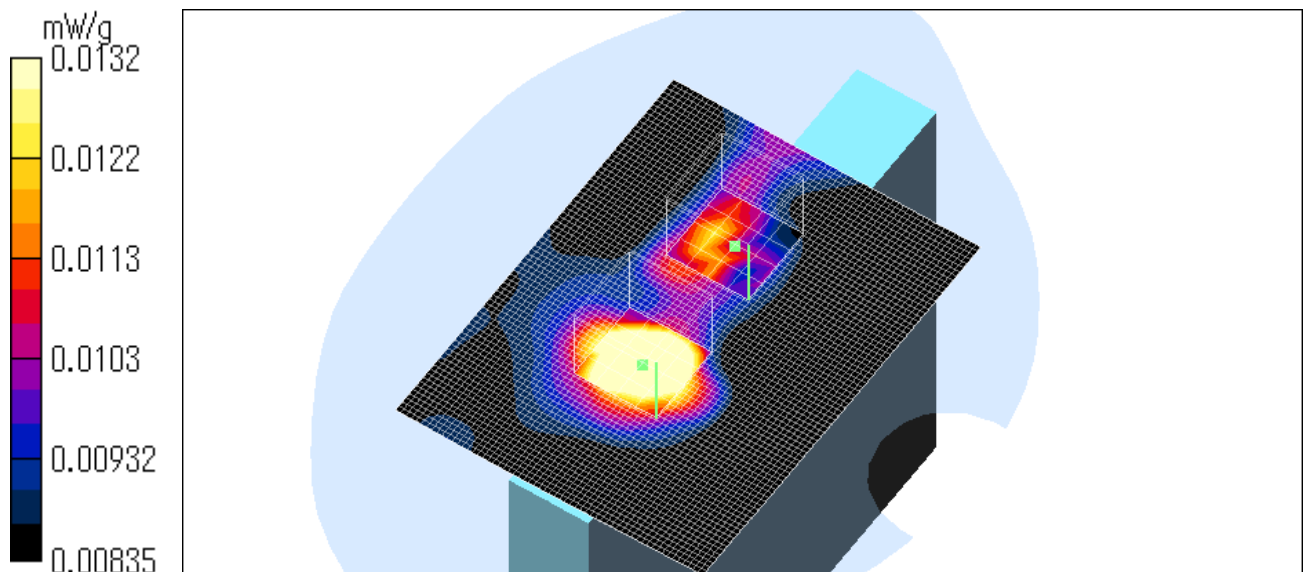
Reference Value = 2.48 V/m

Power Drift = -0.1 dB

Test Date = 03/28/05

Ambient Temperature = 25.0degree.c

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



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**S1596-01 / Body / Left Side (ANT.1) / 11.g BPSK / 2437MHz**

Crest factor: 2.2  
Medium: M2450 ( $\sigma = 1.97$  mho/m,  $\epsilon_r = 50.1$ ,  $\rho = 1000$  kg/m<sup>3</sup>)  
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

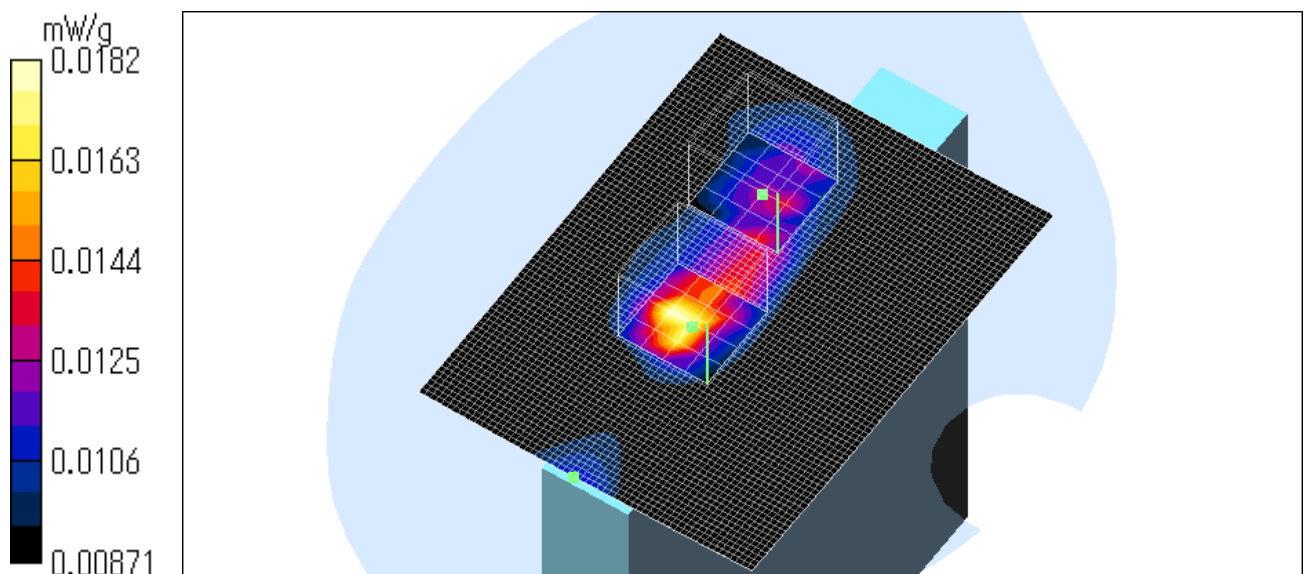
**Area Scan (61x81x1):** Measurement grid: dx=20mm, dy=20mm  
Maximum value of SAR = 0.0169 mW/g

**Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Peak SAR (extrapolated) = 0.0242 W/kg  
**SAR(1 g) = 0.0123 mW/g; SAR(10 g) = 0.011 mW/g**  
Maximum value of SAR = 0.0142 mW/g

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Peak SAR (extrapolated) = 0.0633 W/kg  
**SAR(1 g) = 0.0191 mW/g; SAR(10 g) = 0.0131 mW/g**  
Maximum value of SAR = 0.0182 mW/g

Reference Value = 2.59 V/m  
Power Drift = -0.4 dB

Test Date = 03/28/05  
Ambient Temperature = 25.0degree.c  
Liquid Temperature = Before 24.1 degree.C , After 24.1 degree.C



## S1596-01 / Body / Left Front (ANT.0) / 11.g BPSK / 2412MHz

Crest factor: 2.2

Medium: M2450 ( $\sigma = 1.97$  mho/m,  $\epsilon_r = 50.1$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

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 = 0.0258 mW/g

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

Peak SAR (extrapolated) = 0.143 W/kg

**SAR(1 g) = 0.0331 mW/g; SAR(10 g) = 0.0215 mW/g**

Maximum value of SAR = 0.0307 mW/g

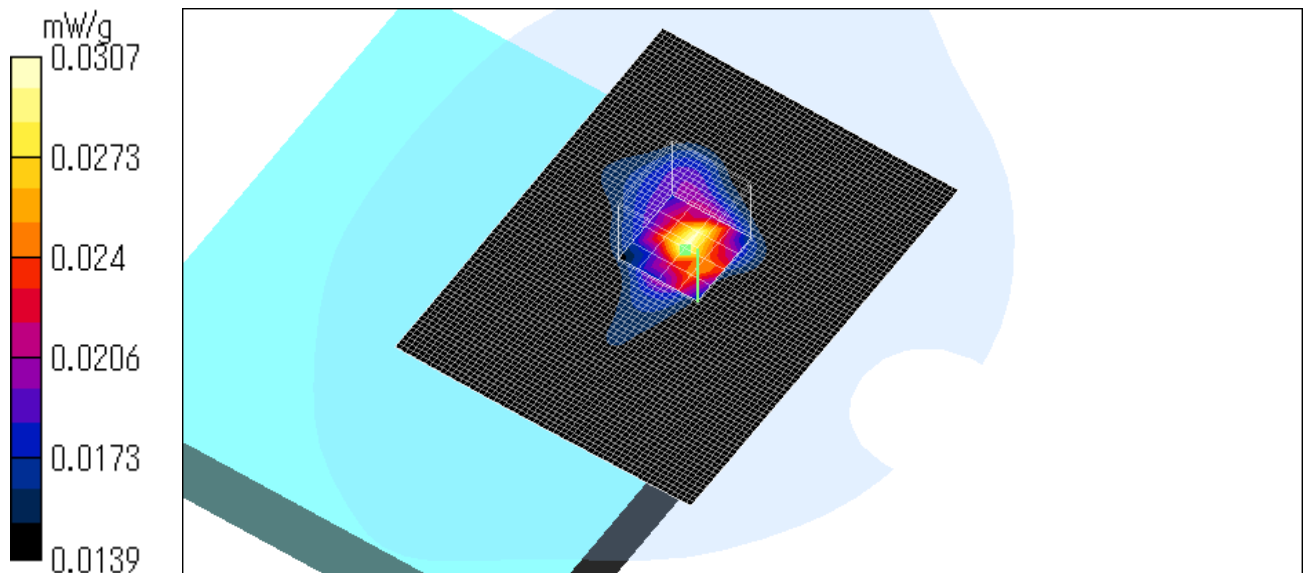
Reference Value = 3.51 V/m

Power Drift = 0.3 dB

Test Date = 03/28/05

Ambient Temperature = 25.0degree.c

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



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**S1596-01 / Body / Left Front (ANT.0) / 11.g BPSK / 2462MHz**

Crest factor: 2.2  
Medium: M2450 ( $\sigma = 1.97$  mho/m,  $\epsilon_r = 50.1$ ,  $\rho = 1000$  kg/m<sup>3</sup>)  
Phantom section: Flat Section

DASY4 Configuration:

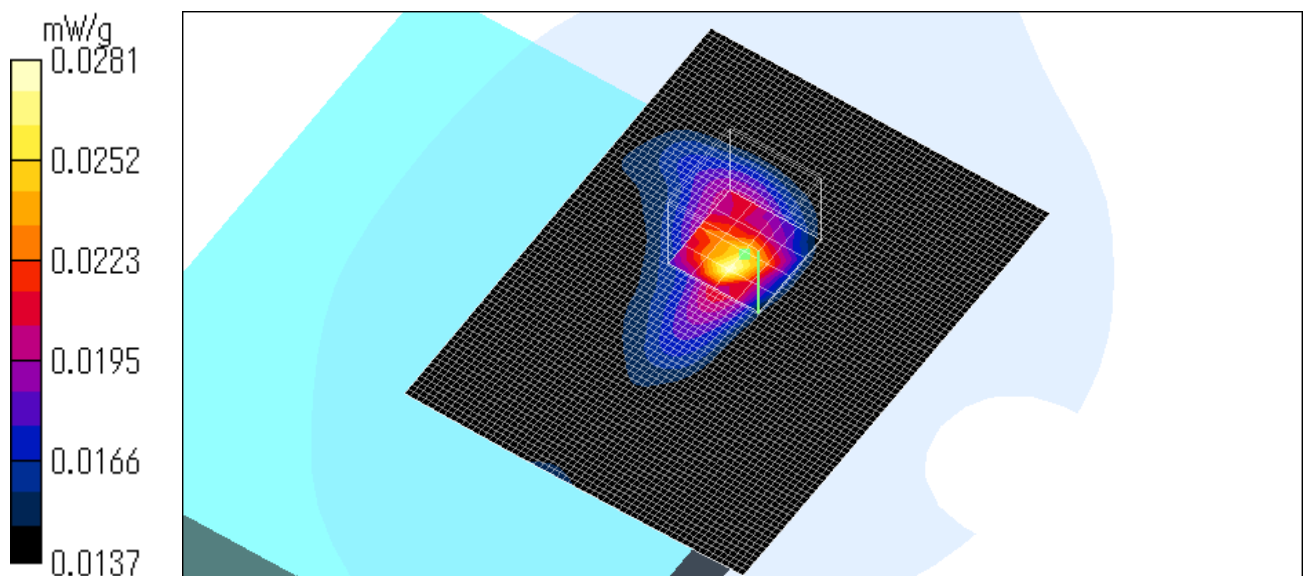
- Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Phantom: SAM 1196
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

**Area Scan (61x81x1):** Measurement grid: dx=20mm, dy=20mm  
Maximum value of SAR = 0.027 mW/g

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Peak SAR (extrapolated) = 0.0421 W/kg  
**SAR(1 g) = 0.026 mW/g; SAR(10 g) = 0.0201 mW/g**  
Maximum value of SAR = 0.0281 mW/g

Reference Value = 3.47 V/m  
Power Drift = -0.3 dB

Test Date = 03/28/05  
Ambient Temperature = 25.0degree.c  
Liquid Temperature = Before 24.3 degree.C , After 24.3 degree.C



**S1596-01 / Body / Left Front (ANT.1) / 11.b DBPSK / BT OFF**

Crest factor: 1.3  
Medium: M2450 ( $\sigma = 1.97$  mho/m,  $\epsilon_r = 50.1$ ,  $\rho = 1000$  kg/m<sup>3</sup>)  
Phantom section: Flat Section

DASY4 Configuration:

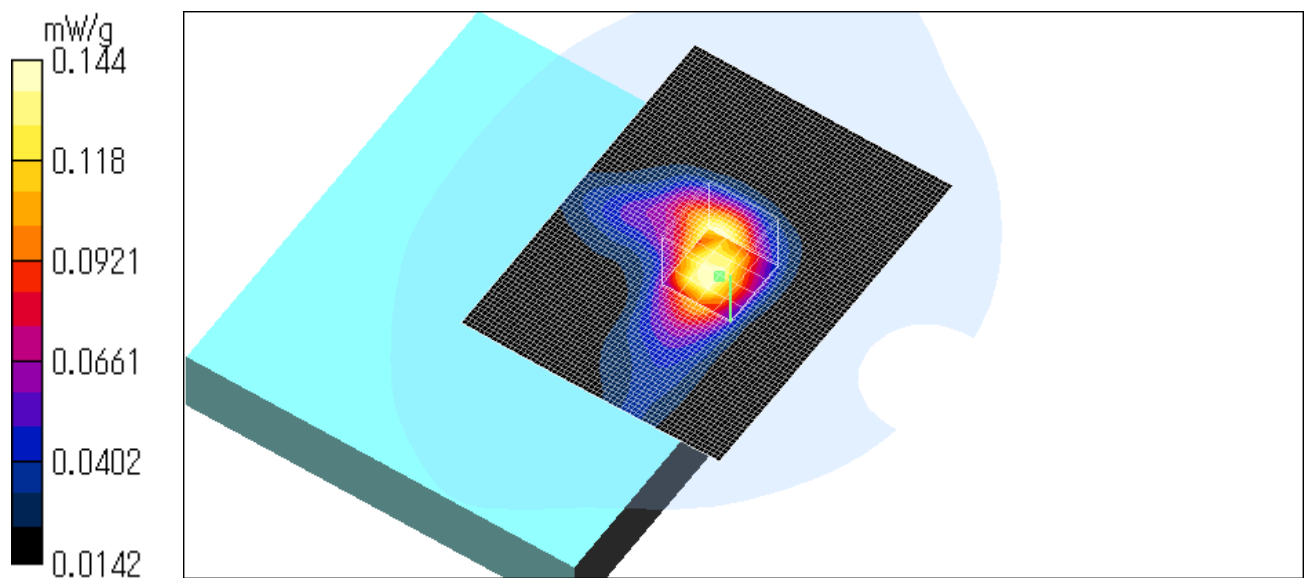
- Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Phantom: SAM 1196
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

**Area Scan (61x81x1):** Measurement grid: dx=20mm, dy=20mm  
Maximum value of SAR = 0.15 mW/g

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Peak SAR (extrapolated) = 0.3 W/kg  
**SAR(1 g) = 0.143 mW/g; SAR(10 g) = 0.0811 mW/g**  
Maximum value of SAR = 0.144 mW/g

Reference Value = 8.76 V/m  
Power Drift = -0.4 dB

Test Date = 03/28/05  
Ambient Temperature = 25.0degree.c  
Liquid Temperature = Before 24.3 degree.C , After 24.3 degree.C



### **APPENDIX 3: Validation Measurement data**

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

Crest factor: 1  
Medium: HSL2450 ( $\sigma = 1.88$  mho/m,  $\epsilon_r = 37.3$ ,  $\rho = 1000$  kg/m<sup>3</sup>)  
Phantom section: Flat Section

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

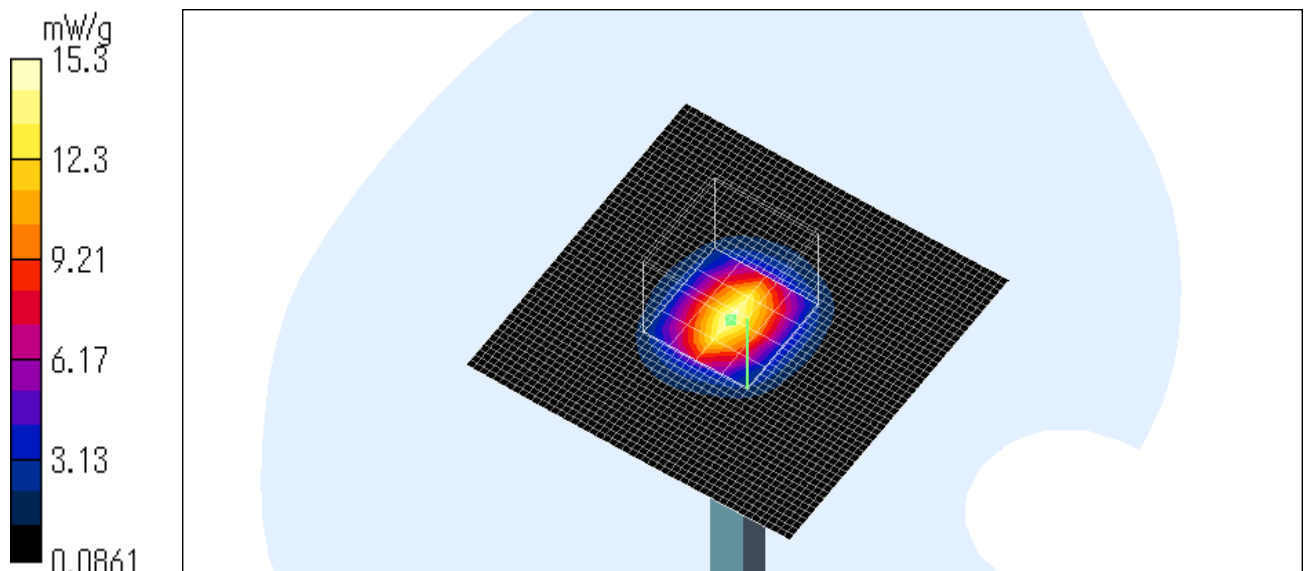
DASY4 Configuration:  
- Probe: ET3DV6 - SN1684; ConvF(4.39, 4.39, 4.39); Calibrated: 2004/09/02  
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)  
- Phantom: SAM 1196  
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

**Area Scan (51x51x1):** Measurement grid: dx=20mm, dy=20mm  
Maximum value of SAR = 16.7 mW/g

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Peak SAR (extrapolated) = 28.3 W/kg  
**SAR(1 g) = 13.8 mW/g; SAR(10 g) = 6.34 mW/g**  
Maximum value of SAR = 15.3 mW/g

Reference Value = 95.1 V/m  
Power Drift = -0.06 dB

Test date = 03/25/05  
Ambient Temperature = 25.0 degree.c  
Liquid Temperature = Before 24.5 degree.C , After 24.5 degree.C



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

Crest factor: 1

Medium: HSL2450 ( $\sigma = 1.87$  mho/m,  $\epsilon_r = 37.3$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

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 = 17.5 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) = 14.3 mW/g; SAR(10 g) = 6.59 mW/g**

Maximum value of SAR = 16 mW/g

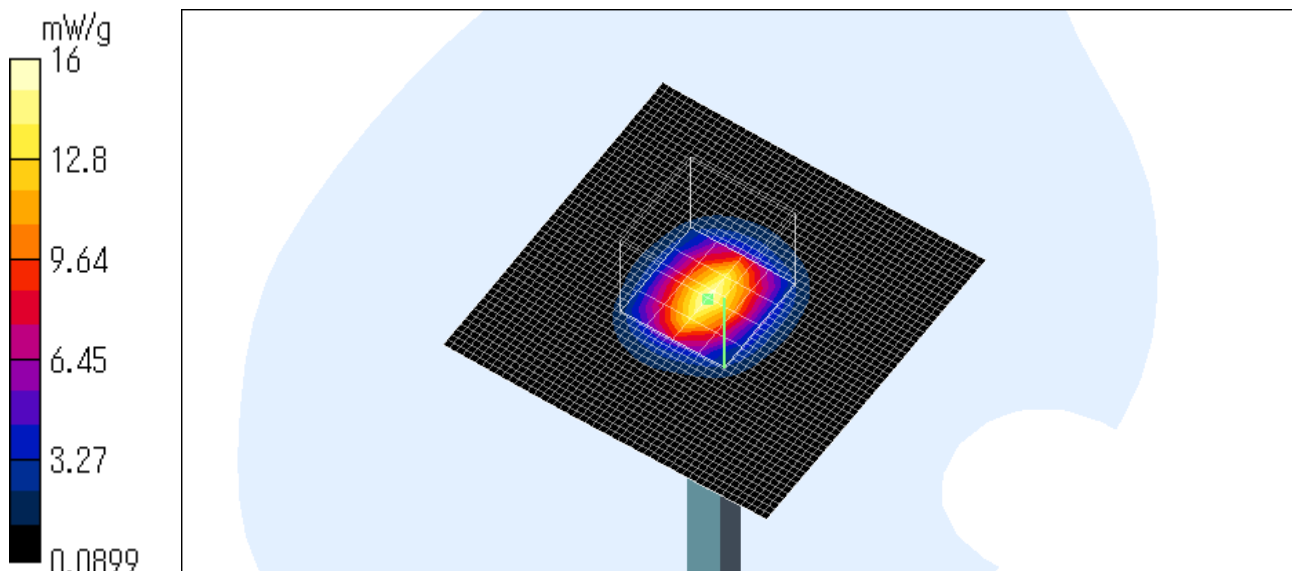
Reference Value = 97.1 V/m

Power Drift = -0.05 dB

Test date = 03/28/05

Ambient Temperature = 25.0 degree.c

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



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