

APPENDIX B PLOTS OF THE SAR MEASUREMENTS

Plots of the measured SAR distributions inside the phantom are given in this Appendix for all tested configurations. The spatial peak SAR values were assessed with the procedure described in this report.

Table 17: SAR Measurement Plot Numbers

Plot 1	Belt-Clip Position – Ant Low - CH#1
Plot 2	Belt-Clip Position – Ant Mid - CH#2
Plot 3	Belt-Clip Position – Ant High - CH#3
Plot 4	Belt-Clip Position – Ant Mini Low - CH#1
Plot 5	Belt-Clip Position – Ant Mini Mid - CH#2
Plot 6	Belt-Clip Position – Ant Mini High - CH#3
Z-Axis Graphs for Plots 1 to 6	
Plot 7	Belt-Clip Pouch Position – Ant Low - CH#1
Plot 8	Belt-Clip Pouch Position – Ant Mid - CH#2
Plot 9	Belt-Clip Pouch Position – Ant Low - CH#3
Plot 10	Belt-Clip Pouch Position – Ant Mini Low – CH#1
Plot 11	Belt-Clip Pouch Position – Ant Mini Mid - CH#2
Plot 12	Belt-Clip Pouch Position – Ant Mini High - CH#3
Z-Axis Graphs for Plots 7 to 12	
Plot 13	Belt-Clip SKR-MIC Position – Ant Low - CH#1
Plot14	Belt-Clip SKR-MIC Position – Ant Mid - CH#2
Plot 15	Belt-Clip SKR-MIC Position – Ant High - CH#3
Plot 16	Belt-Clip SKR-MIC Position – Ant Mini Low - CH#1
Plot 17	Belt-Clip SKR-MIC Position – Ant Mini Mid - CH#2
Plot 18	Belt-Clip SKR-MIC Position – Ant Mini High - CH#3
Z-Axis Graphs for Plots 13 to 18	

Table 18: SAR Measurement Plot Numbers

Plot 19	Face Position – Ant Low - CH#1
Plot 20	Face Position – Ant Mid - CH#2
Plot 21	Face Position – Ant High - CH#3
Plot 22	Face Position – Ant Mini Low - CH#1
Plot 23	Face Position – Ant Mini Mid - CH#2
Plot 24	Face Position – Ant Mini High - CH#3
	Z-Axis Graphs for Plots 19 to 24
Plot 25	Face SKR-MIC Position – Ant Low - CH#1
Plot 26	Face SKR-MIC Position – Ant Mid - CH#2
Plot 27	Face SKR-MIC Position – Ant High - CH#3
Plot 28	Face SKR-MIC Position – Ant Mini Low - CH#1
Plot 29	Face SKR-MIC Position – Ant Mini Mid - CH#2
Plot 30	Face SKR-MIC Position – Ant Mini High - CH#3
	Z-Axis Graphs for Plots 25 to 30

Table 19: 450MHz Validation Plot Numbers

Plot 31	Validation 450MHz 10 th Sept 2004
Plot 32	Validation 450MHz 11 th Sept 2004
Plot 33	Validation 450MHz 13 th Sept 2004
	Z-Axis Graphs for Plots 31 to 33

Test Date: 10 September 2004

File Name: [450 MHz Belt Clip \(DAE442 Probe1377\) Ant Low 10-09-04.da4](#)

DUT: Tait Transceiver Antenna Low; Type: TPAH5A; Serial: 21000006

* Communication System: CW 450 MHz; Frequency: 400 MHz; Duty Cycle: 1:1

* Medium parameters used: $\sigma = 0.892849$; mho/m, $\epsilon_r = 58.3371$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(7.1, 7.1, 7.1)

- Phantom: Flat Phantom 9.1; Serial: P 9.1; Phantom section: Flat 2.2 Section

Channel 1 Test/Area Scan (81x191x1): Measurement grid: dx=20mm, dy=20mm

Reference Value = 40.8 V/m; Power Drift = -0.2 dB

Maximum value of SAR (interpolated) = 4.14 mW/g

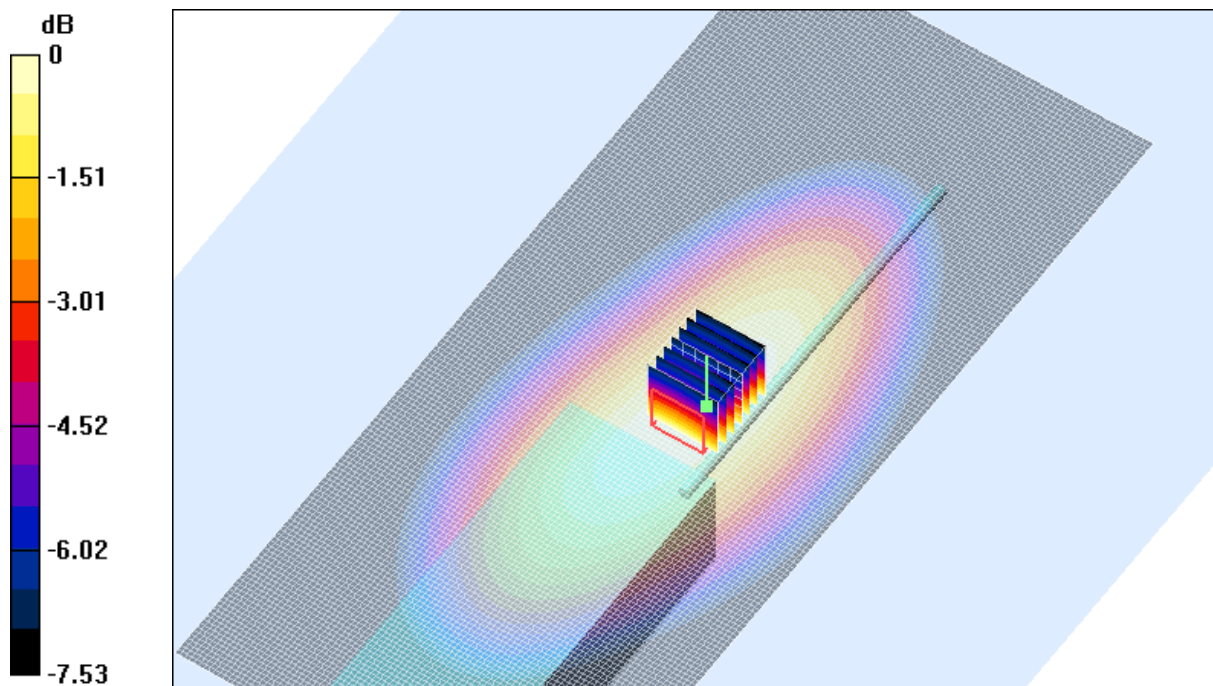
Channel 1 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 40.8 V/m; Power Drift = -0.2 dB

Maximum value of SAR (measured) = 4.09 mW/g

Peak SAR (extrapolated) = 5.93 W/kg

SAR(1 g) = 3.94 mW/g; SAR(10 g) = 2.89 mW/g



0 dB = 4.09mW/g

SAR MEASUREMENT PLOT 1

Ambient Temperature
Liquid Temperature
Humidity

20.8 Degrees Celsius
20.3 Degrees Celsius
47.0 %

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Test Date: 10 September 2004

File Name: [450 MHz Belt Clip \(DAE442 Probe1377\) Ant Middle 10-09-04.da4](#)

DUT: Tait Transceiver Antenna Middle; Type: TPAH5A; Serial: 21000006

- * Communication System: CW 450 MHz; Frequency: 435 MHz; Duty Cycle: 1:1
- * Medium parameters used: $\sigma = 0.920248$; mho/m, $\epsilon_r = 57.6421$; $\rho = 1000 \text{ kg/m}^3$
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(7.1, 7.1, 7.1)
- Phantom: Flat Phantom 9.1; Serial: P 9.1; Phantom section: Flat 2.2 Section

Channel 2 Test/Area Scan (81x181x1): Measurement grid: dx=20mm, dy=20mm

Reference Value = 38.5 V/m; Power Drift = -0.3 dB

Maximum value of SAR (interpolated) = 4.62 mW/g

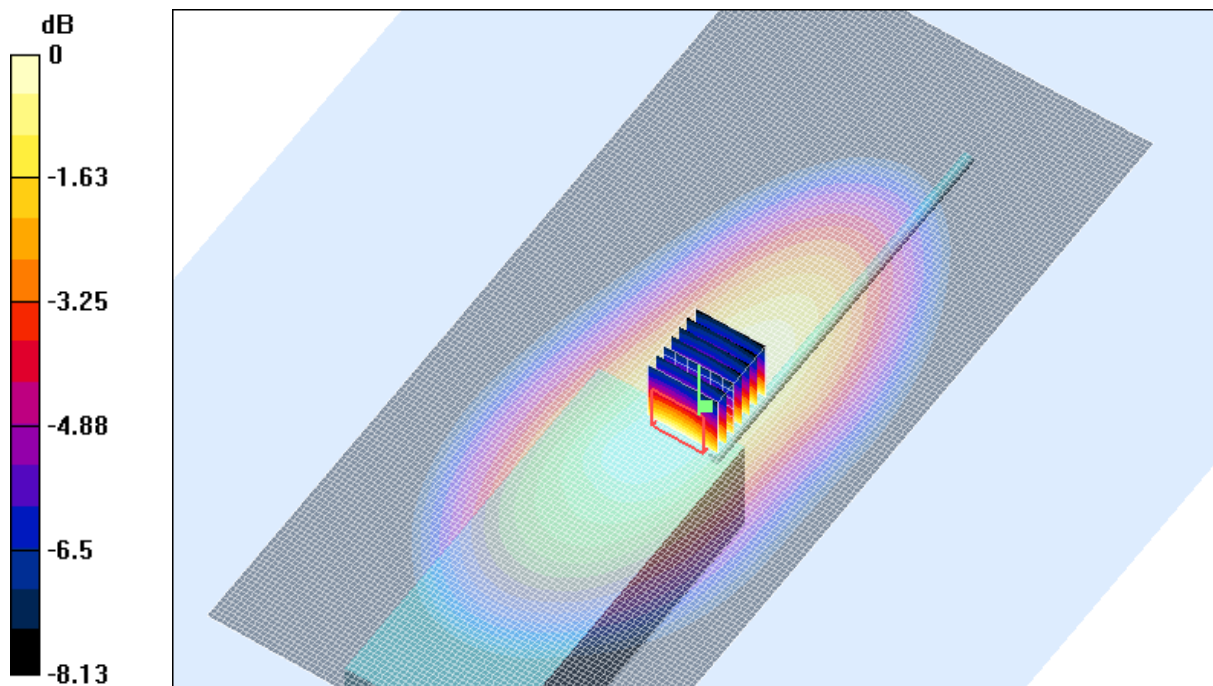
Channel 2 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 38.5 V/m; Power Drift = -0.3 dB

Maximum value of SAR (measured) = 4.53 mW/g

Peak SAR (extrapolated) = 6.68 W/kg

SAR(1 g) = 4.34 mW/g; SAR(10 g) = 3.11 mW/g



0 dB = 4.53mW/g

SAR MEASUREMENT PLOT 2

Ambient Temperature
Liquid Temperature
Humidity

20.8 Degrees Celsius
20.3 Degrees Celsius
47.0 %

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Test Date: 10 September 2004

File Name: [450 MHz Belt Clip \(DAE442 Probe1377\) Ant High 10-09-04.da4](#)

DUT: Tait Transceiver Antenna High; Type: TPAH5A; Serial: 21000006

* Communication System: CW 450 MHz; Frequency: 470 MHz; Duty Cycle: 1:1

* Medium parameters used: $\sigma = 0.953294$; mho/m, $\epsilon_r = 57.1423$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(7.1, 7.1, 7.1)

- Phantom: Flat Phantom 9.1; Serial: P 9.1; Phantom section: Flat 2.2 Section

Channel 3 Test/Area Scan (81x181x1): Measurement grid: dx=20mm, dy=20mm

Reference Value = 39.1 V/m; Power Drift = -0.7 dB

Maximum value of SAR (interpolated) = 5.32 mW/g

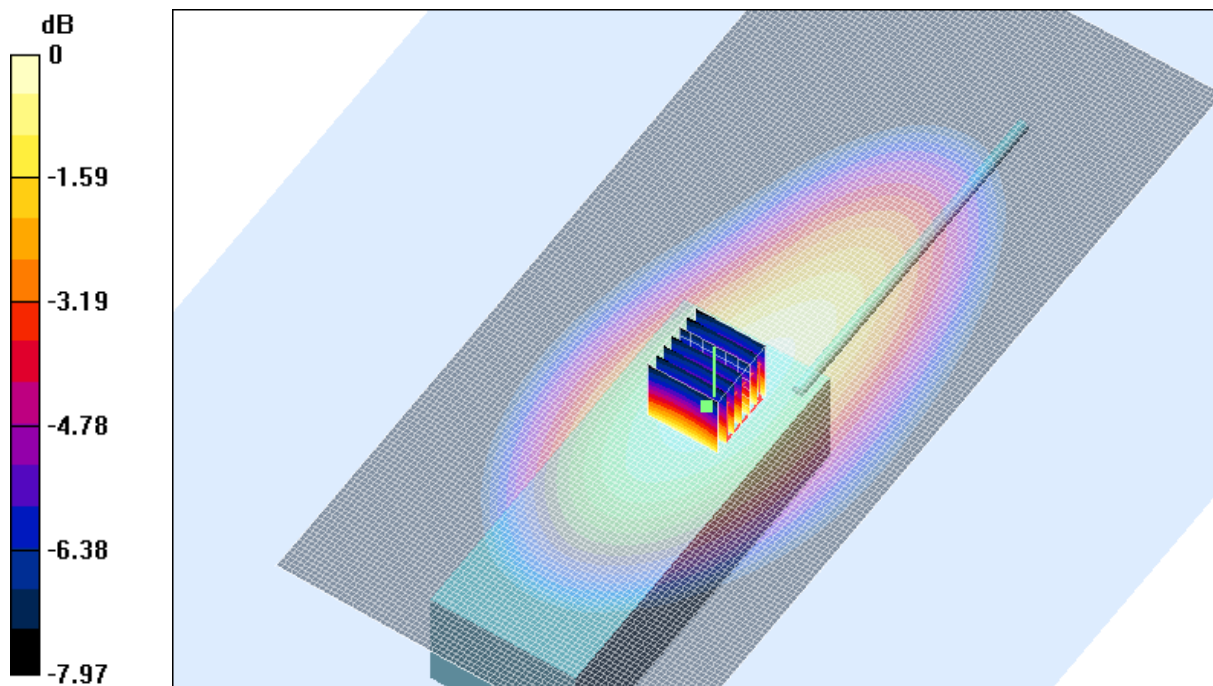
Channel 3 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 39.1 V/m; Power Drift = -0.7 dB

Maximum value of SAR (measured) = 5.28 mW/g

Peak SAR (extrapolated) = 7.83 W/kg

SAR(1 g) = 5 mW/g; SAR(10 g) = 3.58 mW/g



0 dB = 5.28mW/g

SAR MEASUREMENT PLOT 3

Ambient Temperature
Liquid Temperature
Humidity

20.8 Degrees Celsius
20.3 Degrees Celsius
47.0 %

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Test Date: 10 September 2004

File Name: [450 MHz Belt Clip \(DAE442 Probe1377\) Ant Mini Low 10-09-04.da4](#)

DUT: Tait Transceiver Antenna Mini Low; Type: TPAH5A; Serial: 21000006

- * Communication System: CW 450 MHz; Frequency: 400 MHz; Duty Cycle: 1:1
- * Medium parameters used: $\sigma = 0.892849$; mho/m, $\epsilon_r = 58.3371$; $\rho = 1000 \text{ kg/m}^3$
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(7.1, 7.1, 7.1)
- Phantom: Flat Phantom 9.1; Serial: P 9.1; Phantom section: Flat 2.2 Section

Channel 1 Test/Area Scan (81x171x1): Measurement grid: dx=20mm, dy=20mm

Reference Value = 34.4 V/m; Power Drift = -0.2 dB

Maximum value of SAR (interpolated) = 2.22 mW/g

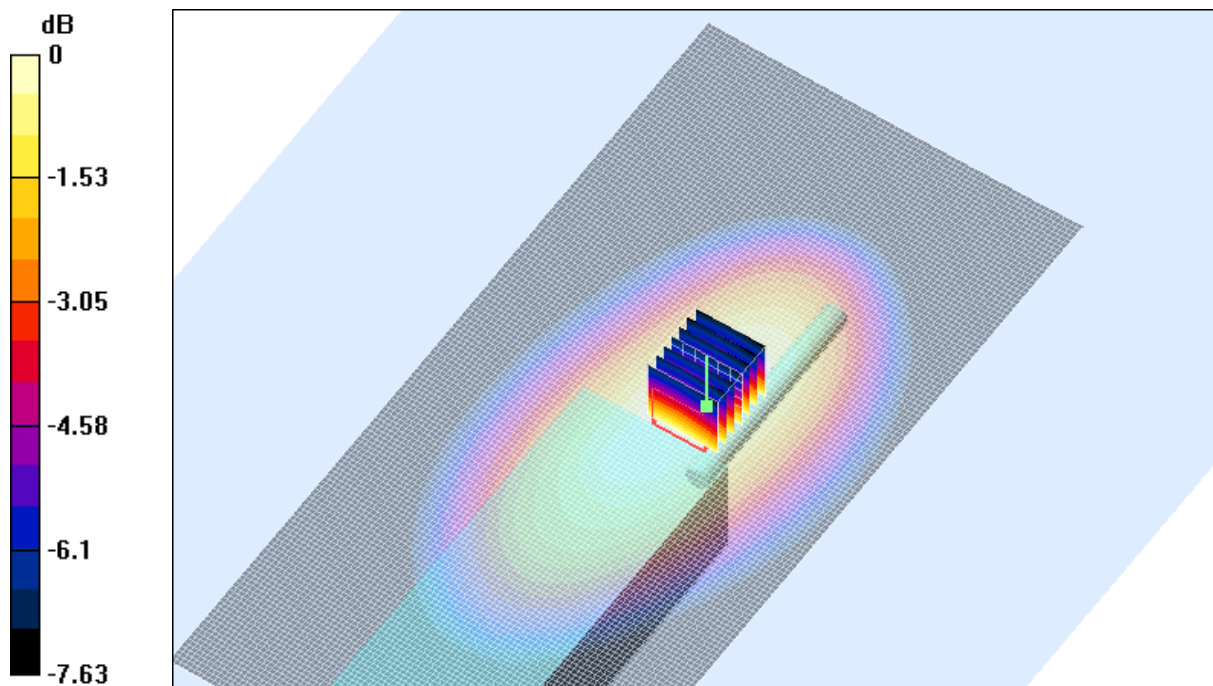
Channel 1 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 34.4 V/m; Power Drift = -0.2 dB

Maximum value of SAR (measured) = 2.2 mW/g

Peak SAR (extrapolated) = 3.22 W/kg

SAR(1 g) = 2.11 mW/g; SAR(10 g) = 1.54 mW/g



0 dB = 2.2mW/g

SAR MEASUREMENT PLOT 4

Ambient Temperature
Liquid Temperature
Humidity

20.8 Degrees Celsius
20.3 Degrees Celsius
47.0 %

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Test Date: 10 September 2004

File Name: [450 MHz Belt Clip \(DAE442 Probe1377\) Ant Mini Middle 10-09-04.da4](#)

DUT: Tait Transceiver Antenna Mini Middle; Type: TPAH5A; Serial: 21000006

* Communication System: CW 450 MHz; Frequency: 435 MHz; Duty Cycle: 1:1

* Medium parameters used: $\sigma = 0.920248$; mho/m, $\epsilon_r = 57.6421$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(7.1, 7.1, 7.1)

- Phantom: Flat Phantom 9.1; Serial: P 9.1; Phantom section: Flat 2.2 Section

Channel 2 Test/Area Scan (81x171x1): Measurement grid: dx=20mm, dy=20mm

Reference Value = 31 V/m; Power Drift = -0.4 dB

Maximum value of SAR (interpolated) = 2.79 mW/g

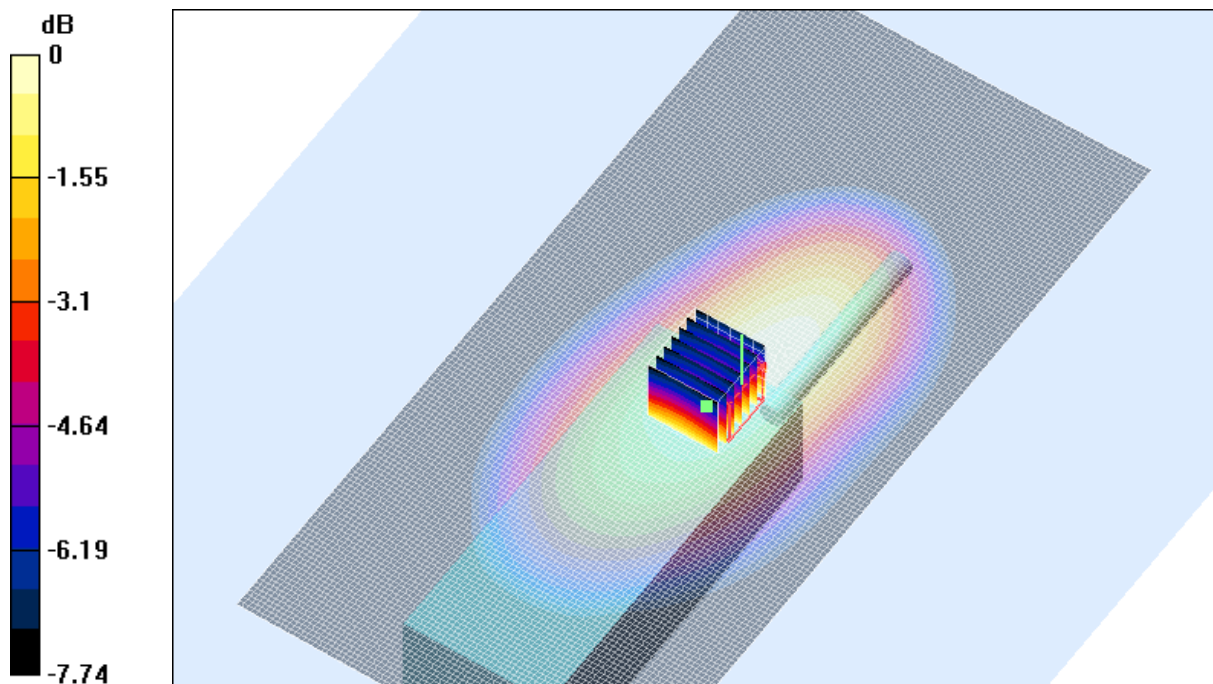
Channel 2 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 31 V/m; Power Drift = -0.4 dB

Maximum value of SAR (measured) = 2.74 mW/g

Peak SAR (extrapolated) = 3.99 W/kg

SAR(1 g) = 2.61 mW/g; SAR(10 g) = 1.9 mW/g



0 dB = 2.74mW/g

SAR MEASUREMENT PLOT 5

Ambient Temperature
Liquid Temperature
Humidity

20.8 Degrees Celsius
20.3 Degrees Celsius
47.0 %

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Test Date: 10 September 2004

File Name: [450 MHz Belt Clip \(DAE442 Probe1377\) Ant Mini High 10-09-04.da4](#)

DUT: Tait Transceiver Antenna Mini High; Type: TPAH5A; Serial: 21000006

- * Communication System: CW 450 MHz; Frequency: 470 MHz; Duty Cycle: 1:1
- * Medium parameters used: $\sigma = 0.953294$; mho/m, $\epsilon_r = 57.1423$; $\rho = 1000 \text{ kg/m}^3$
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(7.1, 7.1, 7.1)
- Phantom: Flat Phantom 9.1; Serial: P 9.1; Phantom section: Flat 2.2 Section

Channel 3 Test/Area Scan (81x161x1): Measurement grid: dx=20mm, dy=20mm

Reference Value = 34.9 V/m; Power Drift = -0.4 dB

Maximum value of SAR (interpolated) = 2.74 mW/g

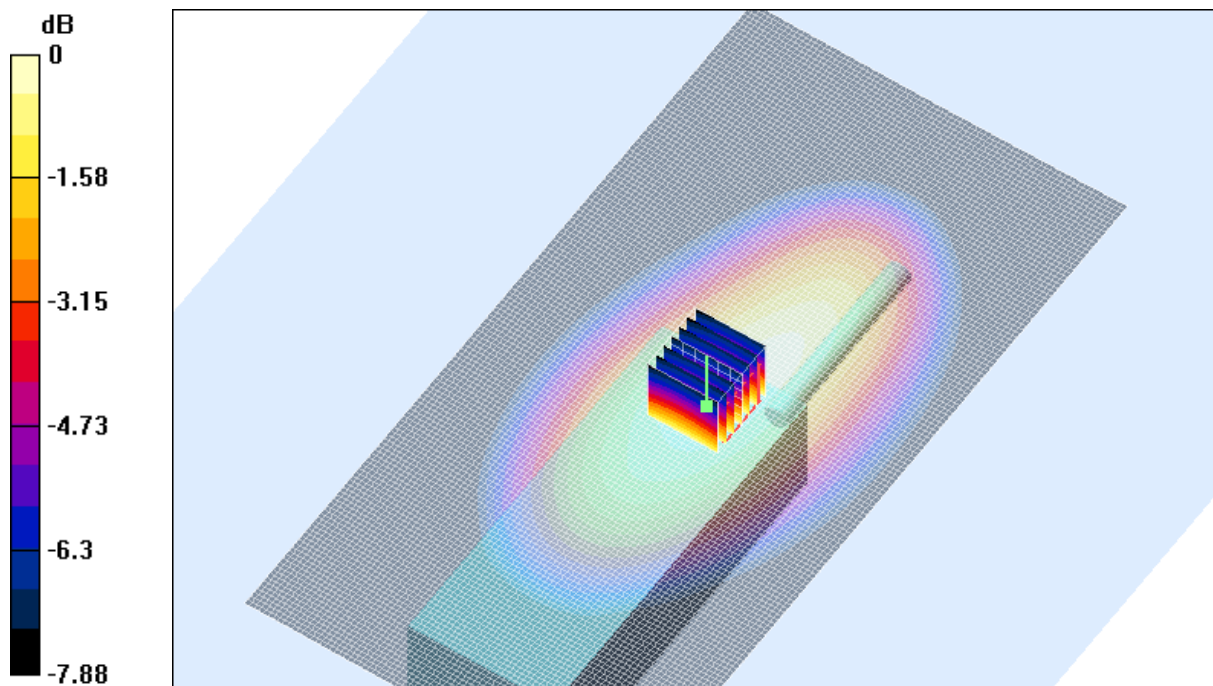
Channel 3 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 34.9 V/m; Power Drift = -0.4 dB

Maximum value of SAR (measured) = 2.7 mW/g

Peak SAR (extrapolated) = 4.05 W/kg

SAR(1 g) = 2.58 mW/g; SAR(10 g) = 1.86 mW/g



0 dB = 2.7mW/g

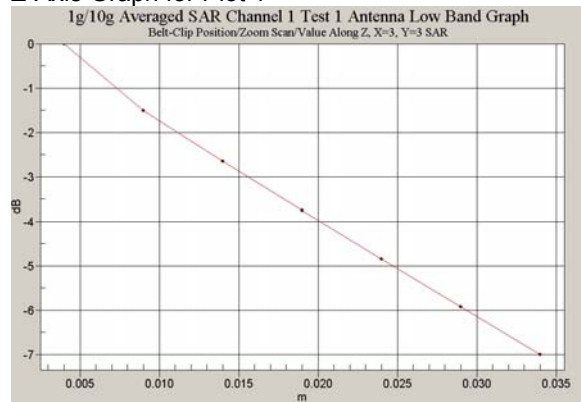
SAR MEASUREMENT PLOT 6

Ambient Temperature
Liquid Temperature
Humidity

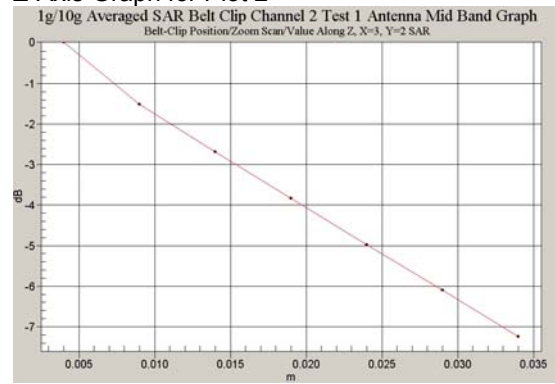
20.8 Degrees Celsius
20.3 Degrees Celsius
47.0 %

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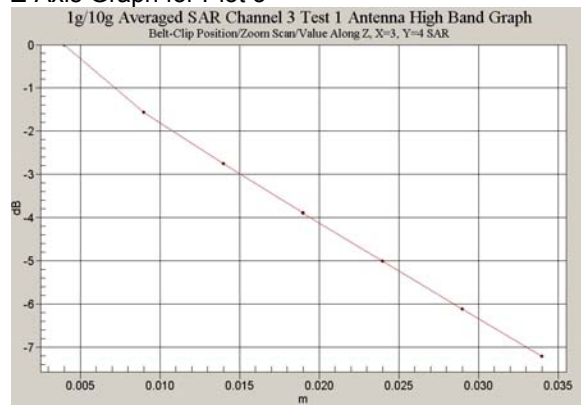
Z-Axis Graph for Plot 1



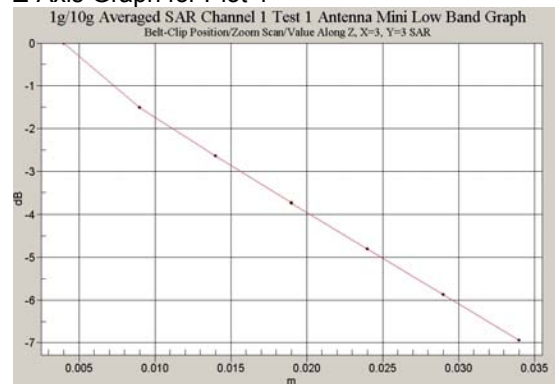
Z-Axis Graph for Plot 2



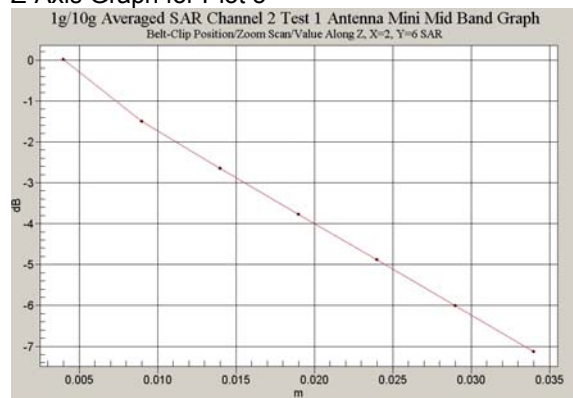
Z-Axis Graph for Plot 3



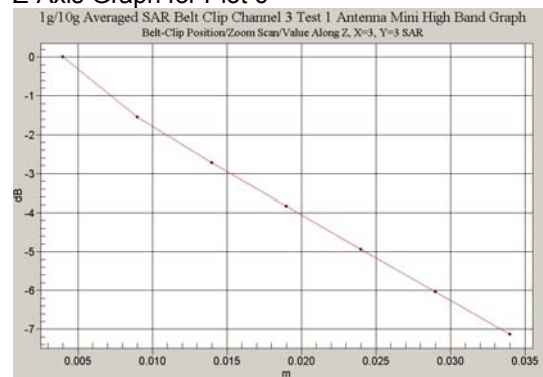
Z-Axis Graph for Plot 4



Z-Axis Graph for Plot 5



Z-Axis Graph for Plot 6



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Test Date: 10 September 2004

File Name: [450 MHz Pouch \(DAE442 Probe1377\) Ant Low 10-09-04.da4](#)

DUT: Tait Transceiver Antenna Low; Type: TPAH5A; Serial: 21000006

- * Communication System: CW 450 MHz; Frequency: 400 MHz; Duty Cycle: 1:1
- * Medium parameters used: $\sigma = 0.892849$; mho/m, $\epsilon_r = 58.3371$; $\rho = 1000 \text{ kg/m}^3$
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(7.1, 7.1, 7.1)
- Phantom: Flat Phantom 9.1; Serial: P 9.1; Phantom section: Flat 2.2 Section

Channel 1 Test/Area Scan (81x191x1): Measurement grid: dx=20mm, dy=20mm

Reference Value = 28.7 V/m; Power Drift = -0.2 dB

Maximum value of SAR (interpolated) = 2.12 mW/g

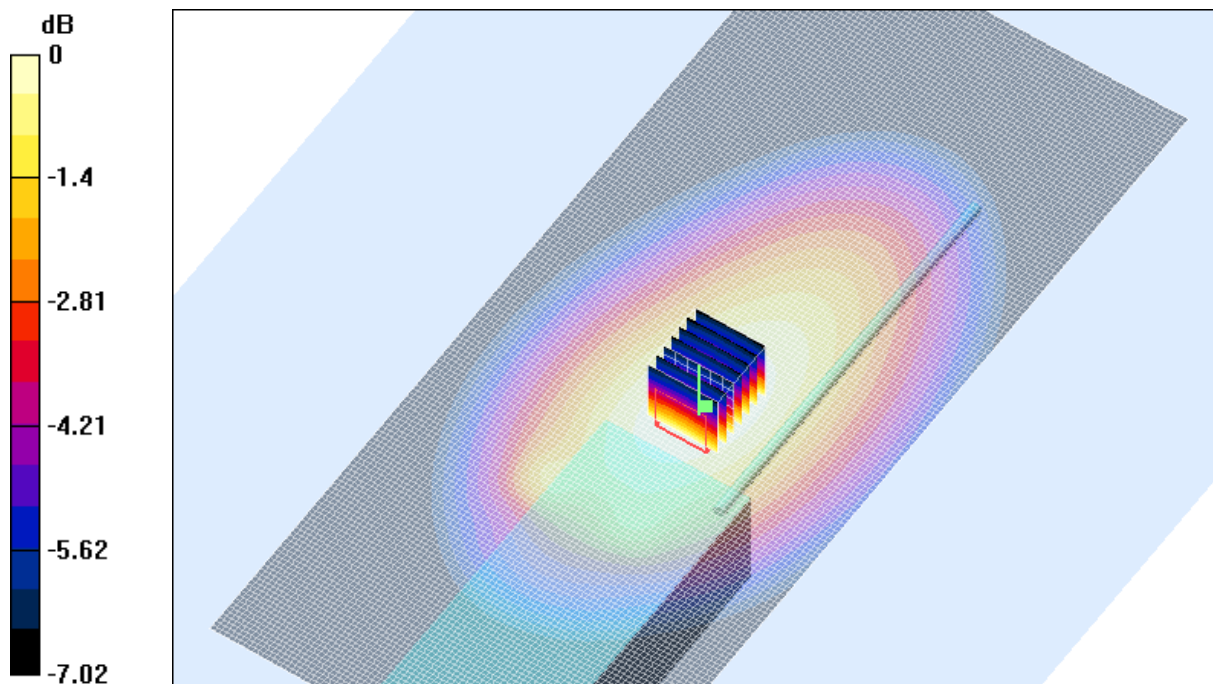
Channel 1 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 28.7 V/m; Power Drift = -0.2 dB

Maximum value of SAR (measured) = 2.1 mW/g

Peak SAR (extrapolated) = 2.99 W/kg

SAR(1 g) = 2.03 mW/g; SAR(10 g) = 1.51 mW/g



0 dB = 2.1mW/g

SAR MEASUREMENT PLOT 7

Ambient Temperature
Liquid Temperature
Humidity

20.8 Degrees Celsius
20.3 Degrees Celsius
47.0 %

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Test Date: 10 September 2004

File Name: [450 MHz Pouch \(DAE442 Probe1377\) Ant Middle 10-09-04.da4](#)

DUT: Tait Transceiver Antenna Middle; Type: TPAH5A; Serial: 21000006

* Communication System: CW 450 MHz; Frequency: 435 MHz; Duty Cycle: 1:1

* Medium parameters used: $\sigma = 0.920248$; mho/m, $\epsilon_r = 57.6421$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(7.1, 7.1, 7.1)

- Phantom: Flat Phantom 9.1; Serial: P 9.1; Phantom section: Flat 2.2 Section

Channel 2 Test/Area Scan (81x181x1): Measurement grid: dx=20mm, dy=20mm

Reference Value = 26 V/m; Power Drift = -0.4 dB

Maximum value of SAR (interpolated) = 1.82 mW/g

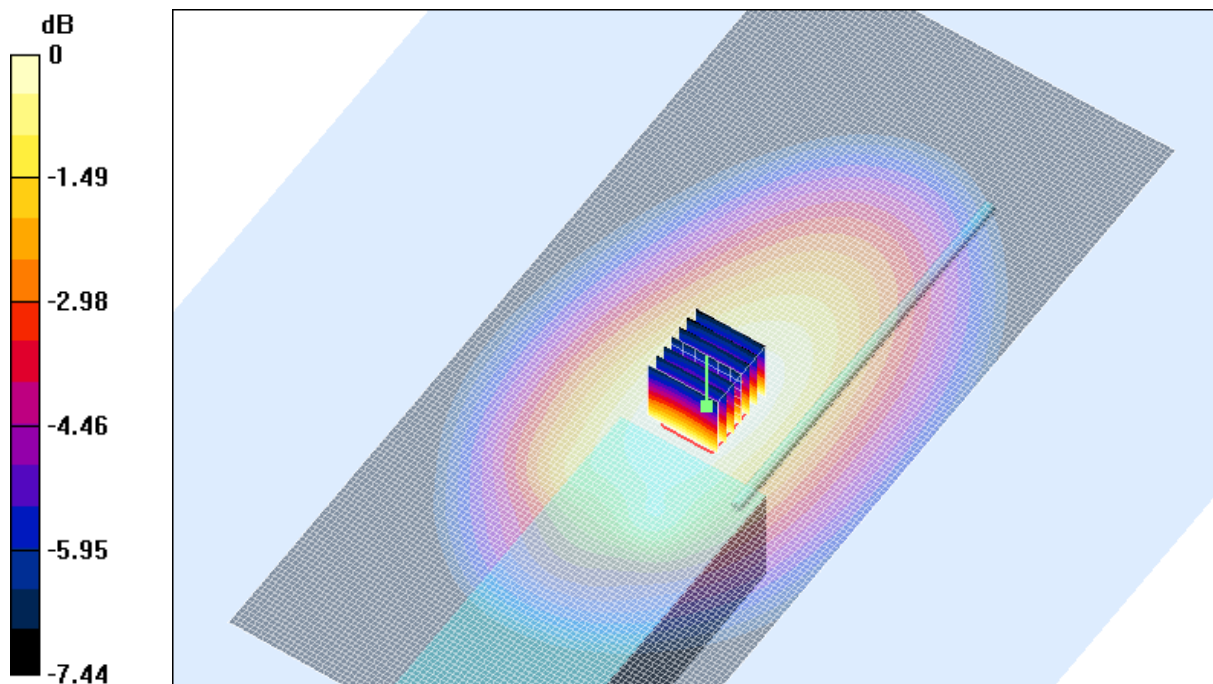
Channel 2 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 26 V/m; Power Drift = -0.4 dB

Maximum value of SAR (measured) = 1.76 mW/g

Peak SAR (extrapolated) = 2.54 W/kg

SAR(1 g) = 1.7 mW/g; SAR(10 g) = 1.26 mW/g



0 dB = 1.76mW/g

SAR MEASUREMENT PLOT 8

Ambient Temperature
Liquid Temperature
Humidity

20.8 Degrees Celsius
20.3 Degrees Celsius
47.0 %

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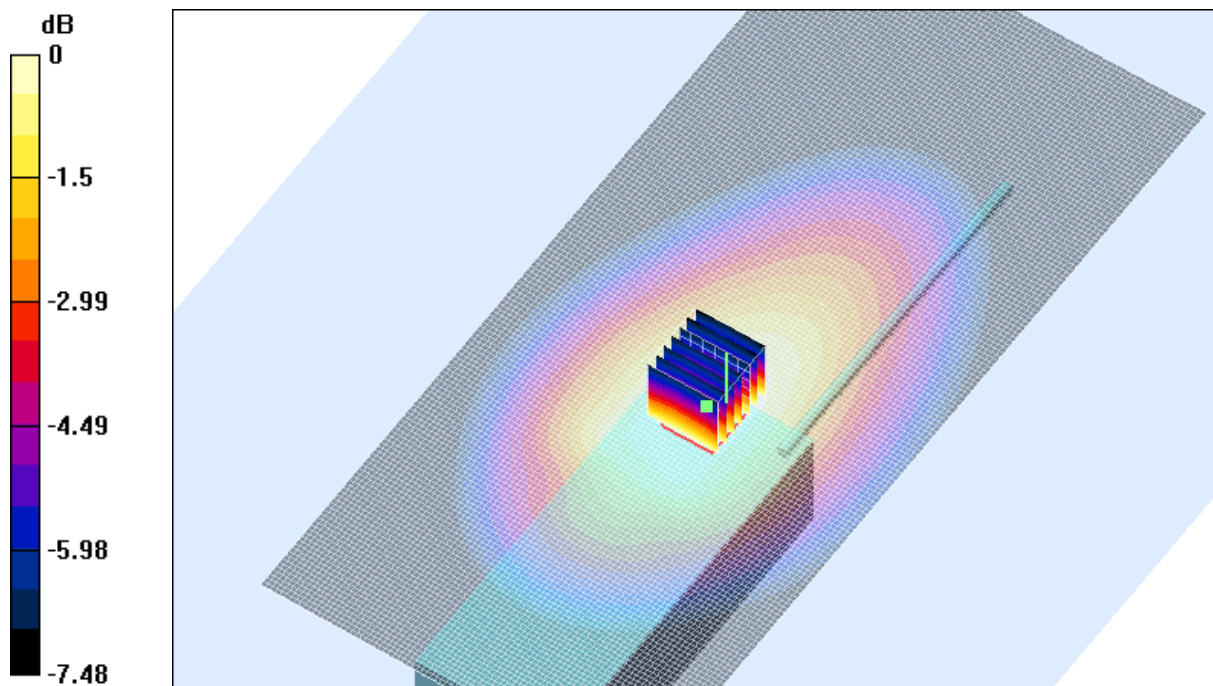
Test Date: 10 September 2004

File Name: [450 MHz Pouch \(DAE442 Probe1377\) Ant High 10-09-04.da4](#)

DUT: Tait Transceiver Antenna High; Type: TPAH5A; Serial: 21000006

* Communication System: CW 450 MHz; Frequency: 470 MHz; Duty Cycle: 1:1
* Medium parameters used: $\sigma = 0.953294$; mho/m, $\epsilon_r = 57.1423$; $\rho = 1000 \text{ kg/m}^3$
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(7.1, 7.1, 7.1)
- Phantom: Flat Phantom 9.1; Serial: P 9.1; Phantom section: Flat 2.2 Section
Channel 3 Test/Area Scan (81x181x1): Measurement grid: dx=20mm, dy=20mm
Reference Value = 22.4 V/m; Power Drift = -0.4 dB
Maximum value of SAR (interpolated) = 2.12 mW/g

Channel 3 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 22.4 V/m; Power Drift = -0.4 dB
Maximum value of SAR (measured) = 2.1 mW/g
Peak SAR (extrapolated) = 3.01 W/kg
SAR(1 g) = 2 mW/g; SAR(10 g) = 1.49 mW/g



0 dB = 2.1mW/g

SAR MEASUREMENT PLOT 9

Ambient Temperature	20.8 Degrees Celsius
Liquid Temperature	20.3 Degrees Celsius
Humidity	47.0 %

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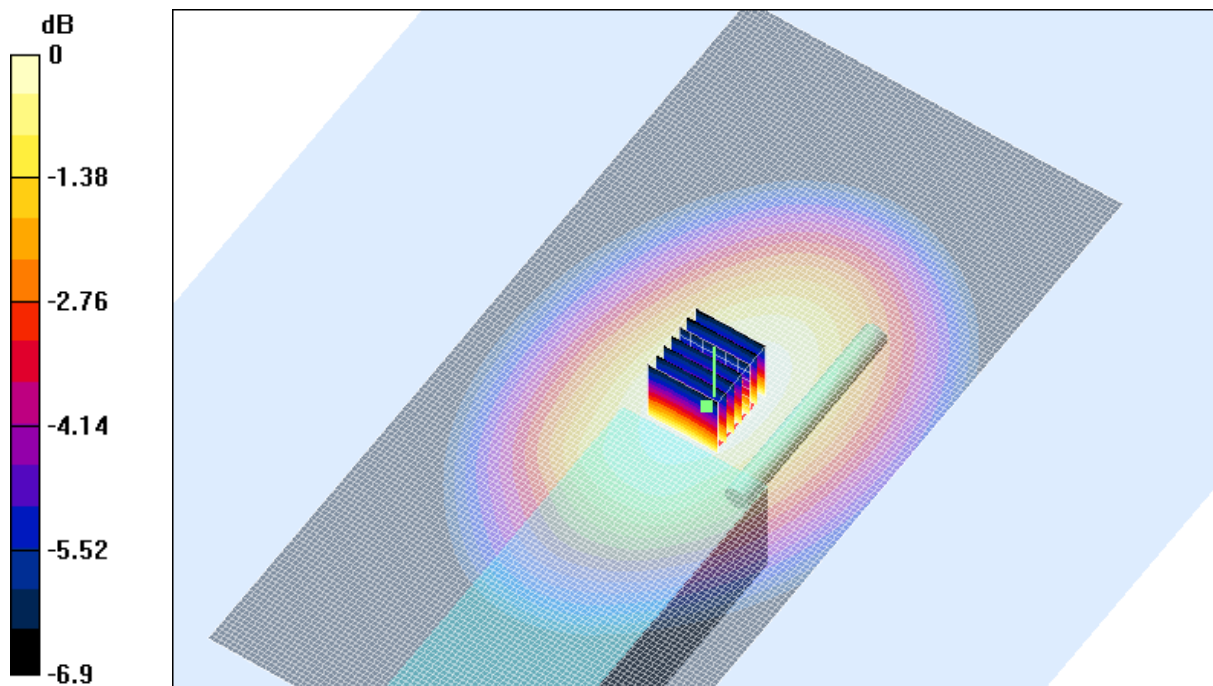
Test Date: 11 September 2004

File Name: [450 MHz Pouch \(DAE442 Probe1377\) Ant Mini Low 11-09-04.da4](#)

DUT: Tait Transceiver Antenna Mini Low; Type: TPAH5A; Serial: 21000006

* Communication System: CW 450 MHz; Frequency: 400 MHz; Duty Cycle: 1:1
 * Medium parameters used: $\sigma = 0.893276$; mho/m, $\epsilon_r = 58.8125$; $\rho = 1000 \text{ kg/m}^3$
 - Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(7.1, 7.1, 7.1)
 - Phantom: Flat Phantom 9.1; Serial: P 9.1; Phantom section: Flat 2.2 Section
Channel 1 Test 3/Area Scan (81x171x1): Measurement grid: dx=20mm, dy=20mm
 Reference Value = 24.9 V/m; Power Drift = -0.5 dB
 Maximum value of SAR (interpolated) = 1.15 mW/g

Channel 1 Test 3/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 24.9 V/m; Power Drift = -0.5 dB
 Maximum value of SAR (measured) = 1.13 mW/g
 Peak SAR (extrapolated) = 1.61 W/kg
SAR(1 g) = 1.09 mW/g; SAR(10 g) = 0.817 mW/g



0 dB = 1.13mW/g

SAR MEASUREMENT PLOT 10

Ambient Temperature	20.4 Degrees Celsius
Liquid Temperature	19.7 Degrees Celsius
Humidity	47.0 %

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Test Date: 10 September 2004

File Name: [450 MHz Pouch \(DAE442 Probe1377\) Ant Mini Middle 10-09-04.da4](#)

DUT: Tait Transceiver Antenna Mini Middle; Type: TPAH5A; Serial: 21000006

* Communication System: CW 450 MHz; Frequency: 435 MHz; Duty Cycle: 1:1

* Medium parameters used: $\sigma = 0.920248$; mho/m, $\epsilon_r = 57.6421$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(7.1, 7.1, 7.1)

- Phantom: Flat Phantom 9.1; Serial: P 9.1; Phantom section: Flat 2.2 Section

Channel 2 Test/Area Scan (81x171x1): Measurement grid: dx=20mm, dy=20mm

Reference Value = 23.2 V/m; Power Drift = -0.4 dB

Maximum value of SAR (interpolated) = 1.41 mW/g

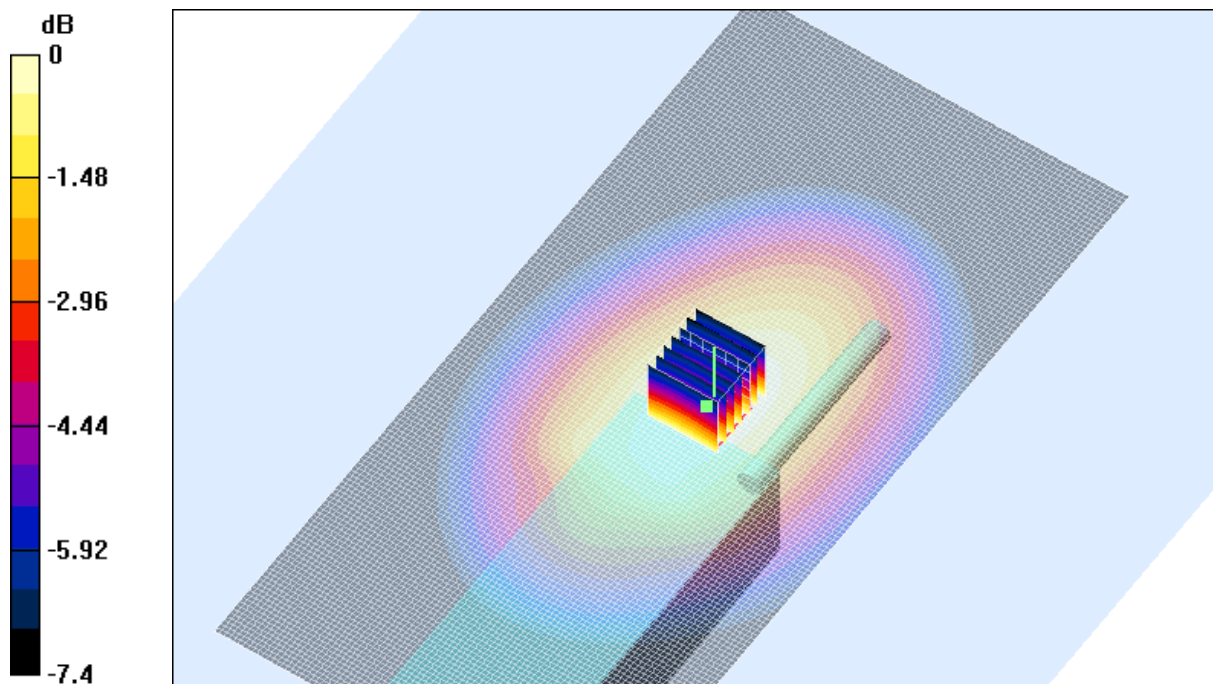
Channel 2 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 23.2 V/m; Power Drift = -0.4 dB

Maximum value of SAR (measured) = 1.38 mW/g

Peak SAR (extrapolated) = 1.98 W/kg

SAR(1 g) = 1.33 mW/g; SAR(10 g) = 0.983 mW/g



0 dB = 1.38mW/g

SAR MEASUREMENT PLOT 11

Ambient Temperature
Liquid Temperature
Humidity

20.8 Degrees Celsius
20.3 Degrees Celsius
47.0 %

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Test Date: 10 September 2004

File Name: [450 MHz Pouch \(DAE442 Probe1377\) Ant Mini High 10-09-04.da4](#)

DUT: Tait Transceiver Antenna Mini High; Type: TPAH5A; Serial: 21000006

- * Communication System: CW 450 MHz; Frequency: 470 MHz; Duty Cycle: 1:1
- * Medium parameters used: $\sigma = 0.953294$; mho/m, $\epsilon_r = 57.1423$; $\rho = 1000 \text{ kg/m}^3$
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(7.1, 7.1, 7.1)
- Phantom: Flat Phantom 9.1; Serial: P 9.1; Phantom section: Flat 2.2 Section

Channel 3 Test/Area Scan (81x161x1): Measurement grid: dx=20mm, dy=20mm

Reference Value = 21.4 V/m; Power Drift = -0.5 dB

Maximum value of SAR (interpolated) = 1.53 mW/g

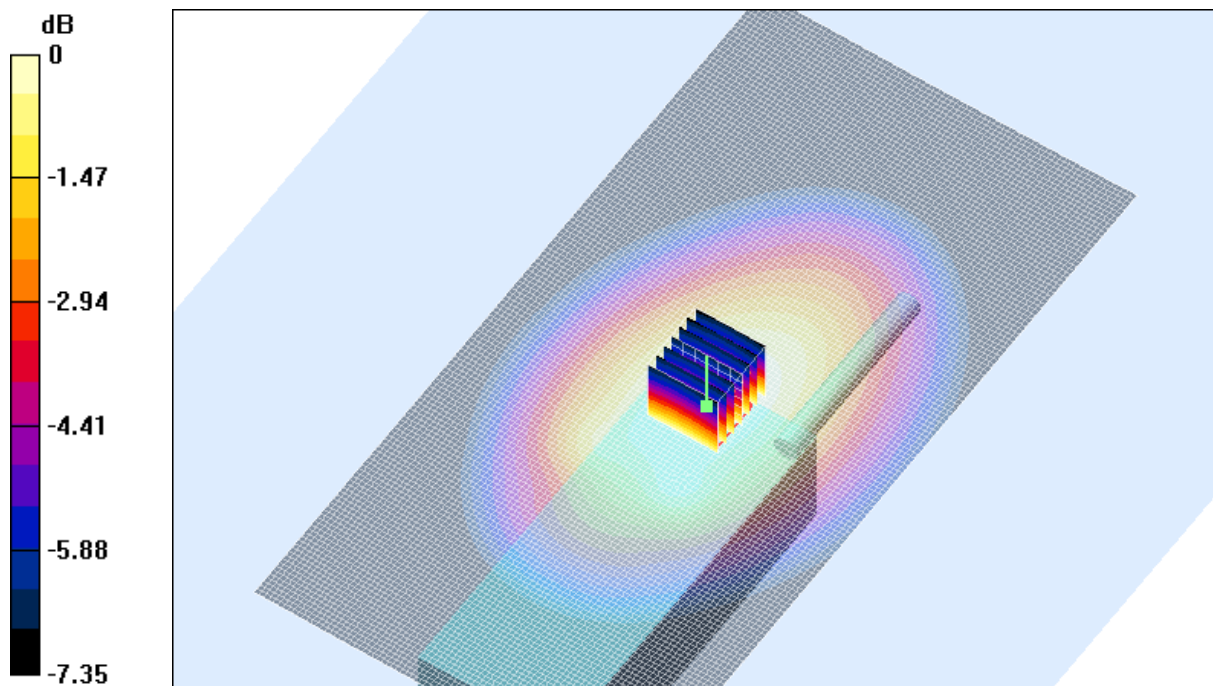
Channel 3 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 21.4 V/m; Power Drift = -0.5 dB

Maximum value of SAR (measured) = 1.49 mW/g

Peak SAR (extrapolated) = 2.13 W/kg

SAR(1 g) = 1.43 mW/g; SAR(10 g) = 1.06 mW/g



0 dB = 1.49mW/g

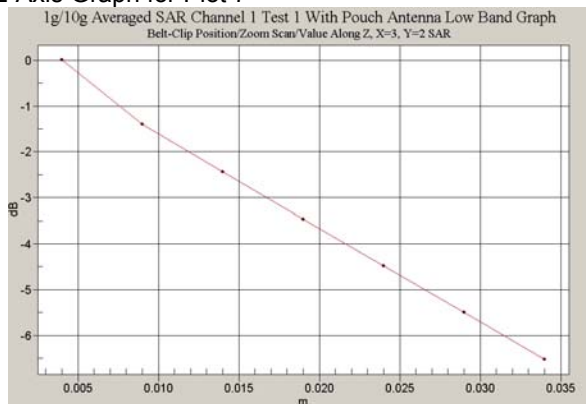
SAR MEASUREMENT PLOT 12

Ambient Temperature
Liquid Temperature
Humidity

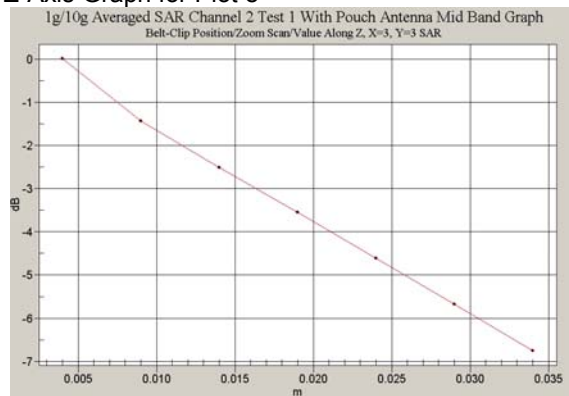
20.8 Degrees Celsius
20.3 Degrees Celsius
47.0 %

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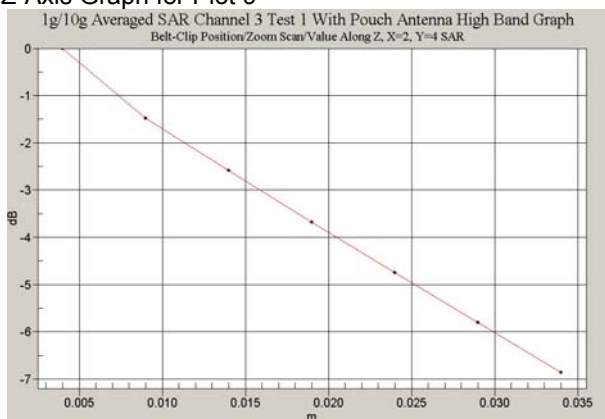
Z-Axis Graph for Plot 7



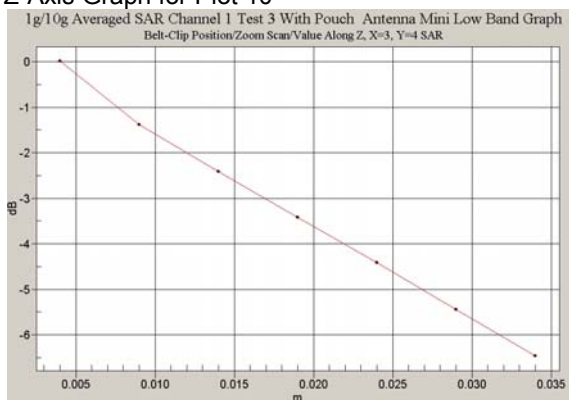
Z-Axis Graph for Plot 8



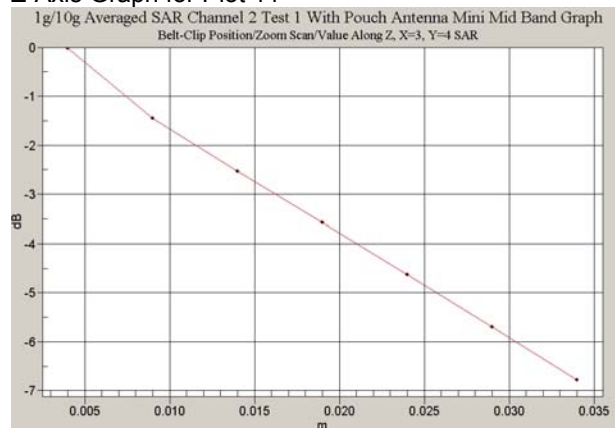
Z-Axis Graph for Plot 9



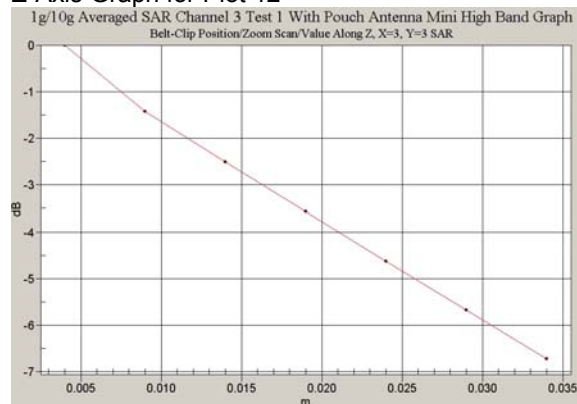
Z-Axis Graph for Plot 10



Z-Axis Graph for Plot 11



Z-Axis Graph for Plot 12



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