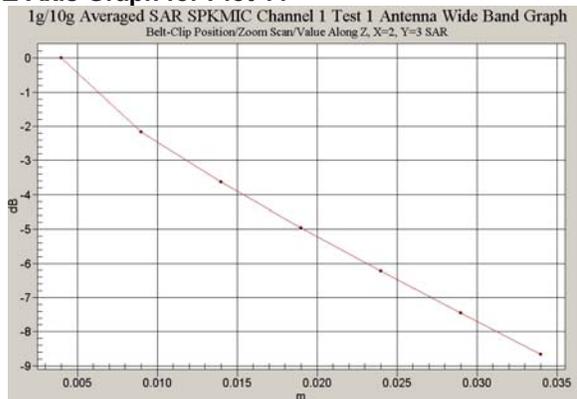
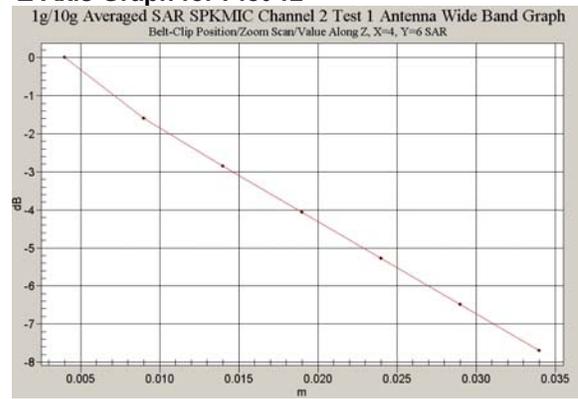


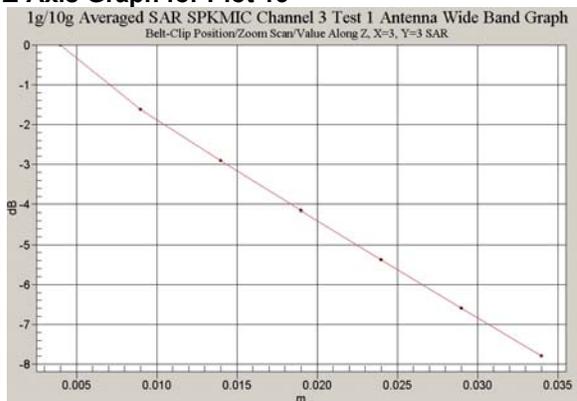
**Z-Axis Graph for Plot 11**



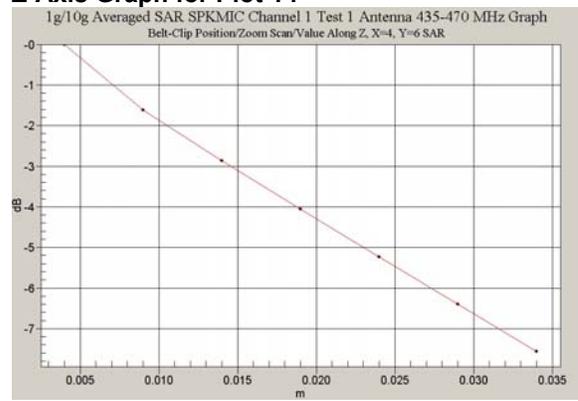
**Z-Axis Graph for Plot 12**



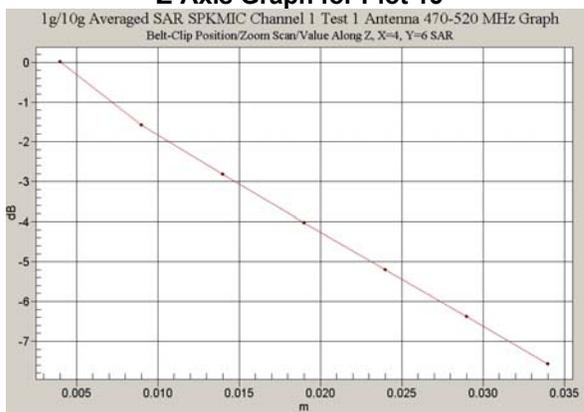
**Z-Axis Graph for Plot 13**



**Z-Axis Graph for Plot 14**



**Z-Axis Graph for Plot 15**



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Test Date: 12 August 2004

File Name: [450 MHz Face Frontal \(DAE442 Probe1377\) Ant Wide Band 12-08-04.da4](#)

DUT: Tait Transceiver Ant. Wide Band; Type: TPAH6A; Serial: 21000002

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

\* Medium parameters used:  $\sigma = 0.847109$ ; mho/m,  $\epsilon_r = 43.2156$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(7, 7, 7)

- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

**Channel 1 Test/Area Scan (81x181x1):** Measurement grid: dx=20mm, dy=20mm

Reference Value = 42.9 V/m; Power Drift = -0.1 dB

Maximum value of SAR (interpolated) = 4.83 mW/g

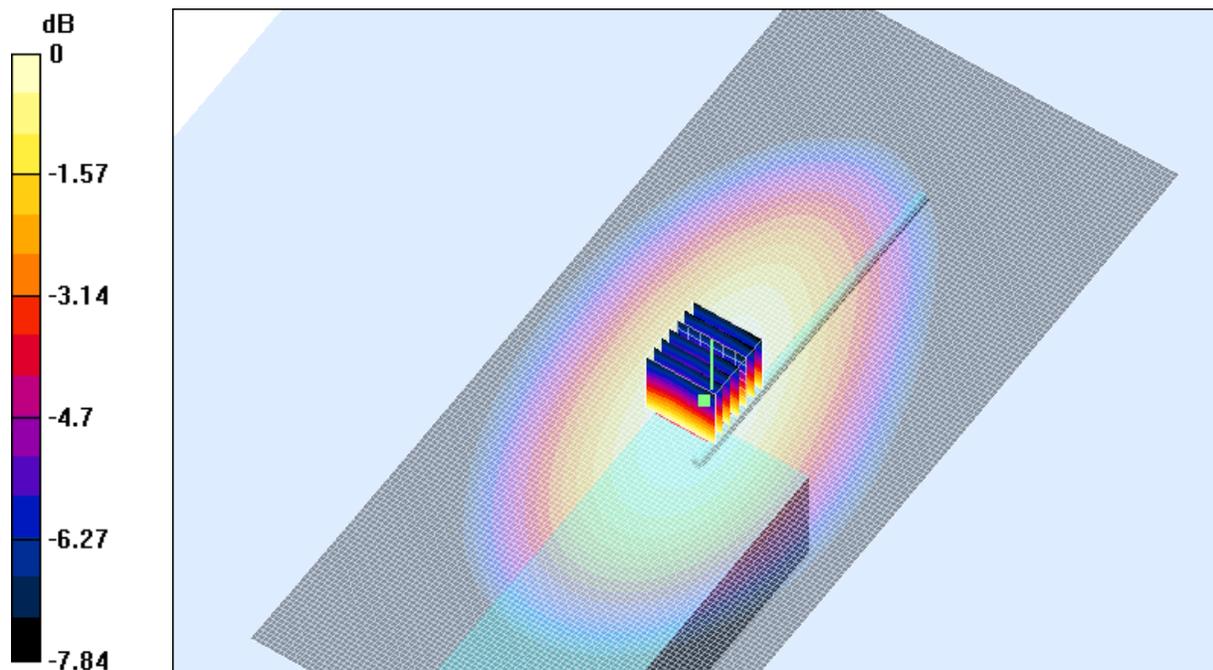
**Channel 1 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 42.9 V/m; Power Drift = -0.1 dB

Maximum value of SAR (measured) = 4.72 mW/g

Peak SAR (extrapolated) = 6.85 W/kg

**SAR(1 g) = 4.52 mW/g; SAR(10 g) = 3.3 mW/g**



0 dB = 4.72mW/g

**SAR MEASUREMENT PLOT 16**

Ambient Temperature  
Liquid Temperature  
Humidity

20.5 Degrees Celsius  
20.0 Degrees Celsius  
41.0 %



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Test Date: 12 August 2004

File Name: [450 MHz Face Frontal \(DAE442 Probe1377\) Ant Wide Band 12-08-04.da4](#)

DUT: Tait Transceiver Ant. Wide Band; Type: TPAH6A; Serial: 21000002

\* Communication System: CW 450 MHz; Frequency: 485 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $\sigma = 0.874892$ ; mho/m,  $\epsilon_r = 42.708$ ;  $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(7, 7, 7)

- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

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

Reference Value = 41.5 V/m; Power Drift = -0.2 dB

Maximum value of SAR (interpolated) = 4.79 mW/g

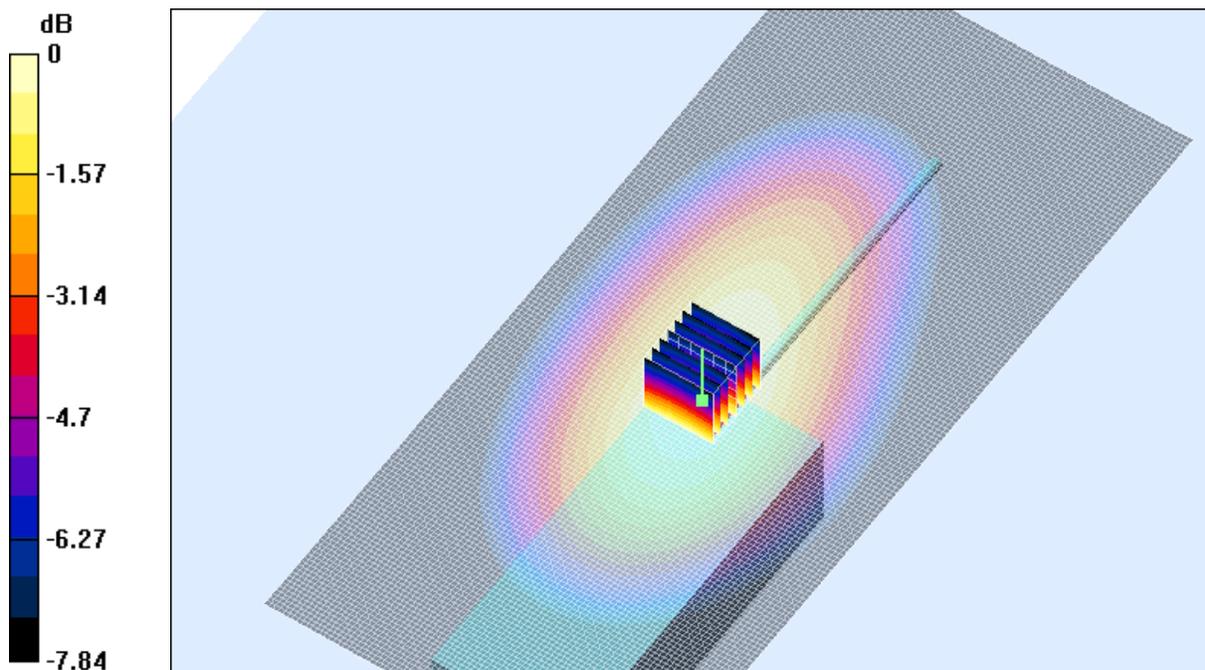
**Channel 2 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 41.5 V/m; Power Drift = -0.2 dB

Maximum value of SAR (measured) = 4.93 mW/g

Peak SAR (extrapolated) = 7.05 W/kg

**SAR(1 g) = 4.74 mW/g; SAR(10 g) = 3.47 mW/g**



0 dB = 4.93mW/g

**SAR MEASUREMENT PLOT 17**

Ambient Temperature  
Liquid Temperature  
Humidity

20.5 Degrees Celsius  
20.0 Degrees Celsius  
41.0 %



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Test Date: 12 August 2004

File Name: [450 MHz Face Frontal \(DAE442 Probe1377\) Ant Wide Band 12-08-04.da4](#)

DUT: Tait Transceiver Ant. Wide Band; Type: TPAH6A; Serial: 21000002

\* Communication System: CW 450 MHz; Frequency: 520 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $\sigma = 0.894191$ ; mho/m,  $\epsilon_r = 41.487$ ;  $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(7, 7, 7)

- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

**Channel 3 Test 2/Area Scan (81x181x1):** Measurement grid: dx=20mm, dy=20mm

Reference Value = 19.1 V/m; Power Drift = -0.4 dB

Maximum value of SAR (interpolated) = 1.37 mW/g

**Channel 3 Test 2/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm,

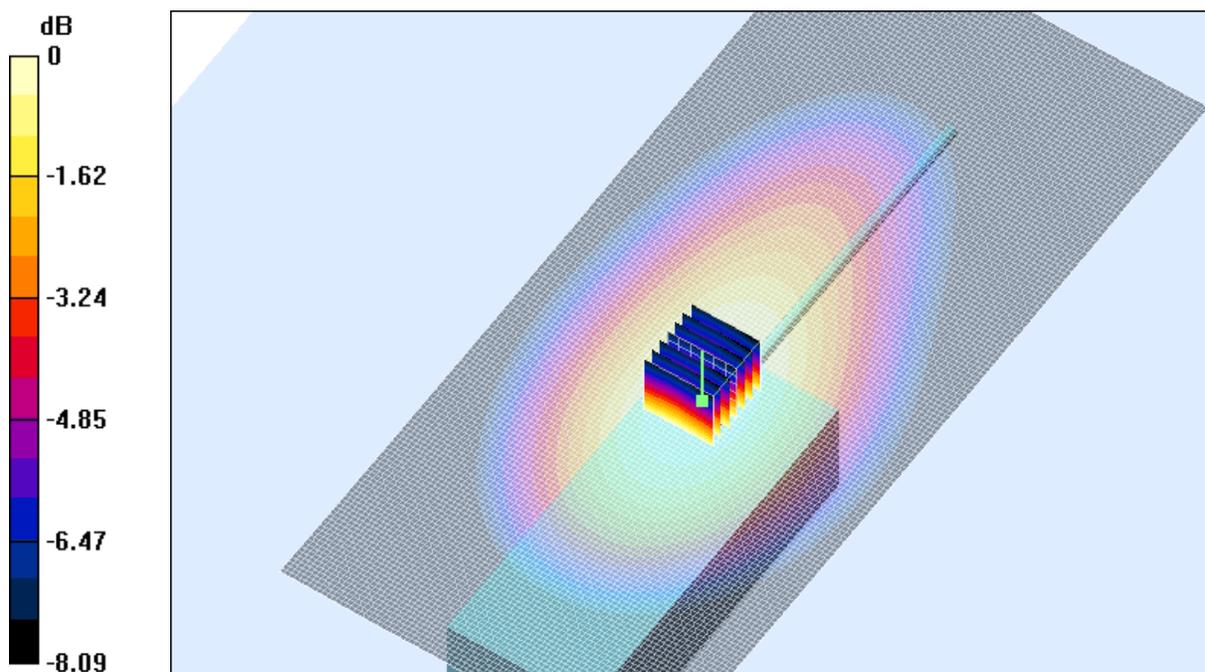
dy=5mm, dz=5mm

Reference Value = 19.1 V/m; Power Drift = -0.4 dB

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

Peak SAR (extrapolated) = 1.95 W/kg

**SAR(1 g) = 1.3 mW/g; SAR(10 g) = 0.940 mW/g**



0 dB = 1.35mW/g

**SAR MEASUREMENT PLOT 18**

Ambient Temperature

20.5 Degrees Celsius

Liquid Temperature

20.0 Degrees Celsius

Humidity

41.0 %



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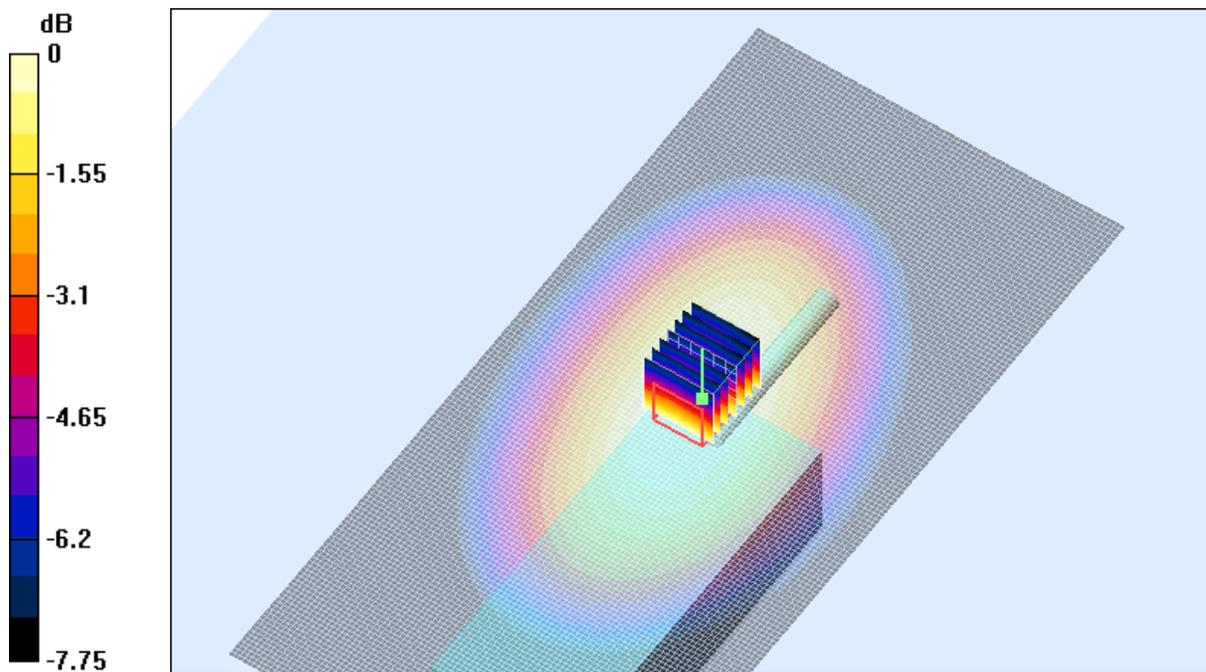
Test Date: 12 August 2004

File Name: [450 MHz Face Frontal \(DAE442 Probe1377\) Ant 435-470 MHz 12-08-04.da4](#)

DUT: Tait Transceiver Ant. 435-470 MHz; Type: TPAH6A; Serial: 21000002

\* Communication System: CW 450 MHz; Frequency: 450 MHz; Duty Cycle: 1:1  
 \* Medium parameters used:  $\sigma = 0.847109$ ; mho/m,  $\epsilon_r = 43.2156$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 - Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(7, 7, 7)  
 - Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section  
**Channel 1 Test/Area Scan (81x171x1)**: Measurement grid: dx=20mm, dy=20mm  
 Reference Value = 50.3 V/m; Power Drift = -0.6 dB  
 Maximum value of SAR (interpolated) = 3.93 mW/g

**Channel 1 Test/Zoom Scan (7x7x7)/Cube 0**: Measurement grid: dx=5mm, dy=5mm, dz=5mm  
 Reference Value = 50.3 V/m; Power Drift = -0.6 dB  
 Maximum value of SAR (measured) = 3.81 mW/g  
 Peak SAR (extrapolated) = 5.54 W/kg  
**SAR(1 g) = 3.67 mW/g; SAR(10 g) = 2.7 mW/g**



0 dB = 3.81mW/g

**SAR MEASUREMENT PLOT 19**

Ambient Temperature  
 Liquid Temperature  
 Humidity

20.5 Degrees Celsius  
 20.0 Degrees Celsius  
 41.0 %



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Test Date: 12 August 2004

File Name: [450 MHz Face Frontal \(DAE442 Probe1377\) Ant 470-520 MHz 12-08-04.da4](#)

DUT: Tait Transceiver Ant. 470-520 MHz; Type: TPAH6A; Serial: 21000002

\* Communication System: CW 450 MHz; Frequency: 485 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $\sigma = 0.874892$ ; mho/m,  $\epsilon_r = 42.708$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(7, 7, 7)

- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

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

Reference Value = 44.1 V/m; Power Drift = -0.4 dB

Maximum value of SAR (interpolated) = 3.75 mW/g

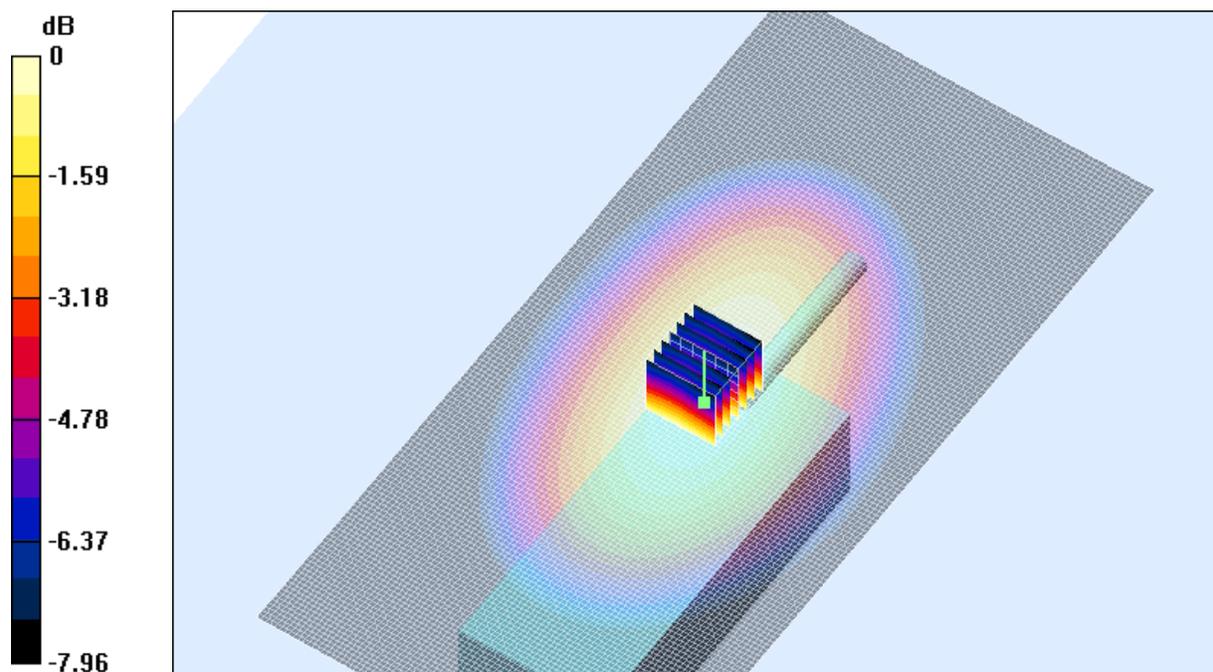
**Channel 2 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 44.1 V/m; Power Drift = -0.4 dB

Maximum value of SAR (measured) = 3.72 mW/g

Peak SAR (extrapolated) = 5.34 W/kg

**SAR(1 g) = 3.58 mW/g; SAR(10 g) = 2.61 mW/g**



**SAR MEASUREMENT PLOT 20**

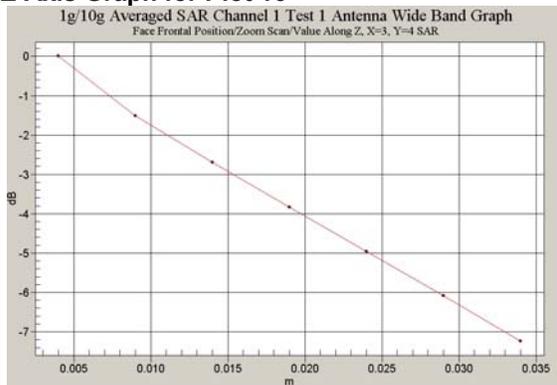
Ambient Temperature  
Liquid Temperature  
Humidity

20.5 Degrees Celsius  
20.0 Degrees Celsius  
41.0 %

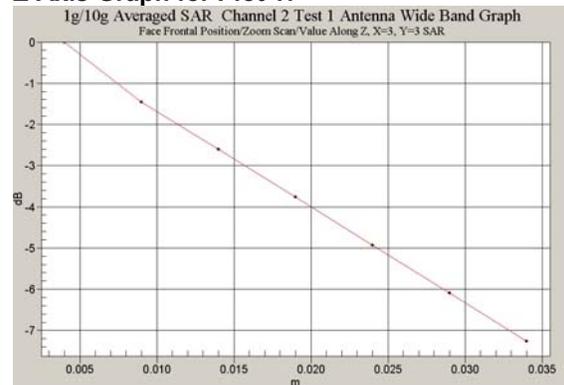


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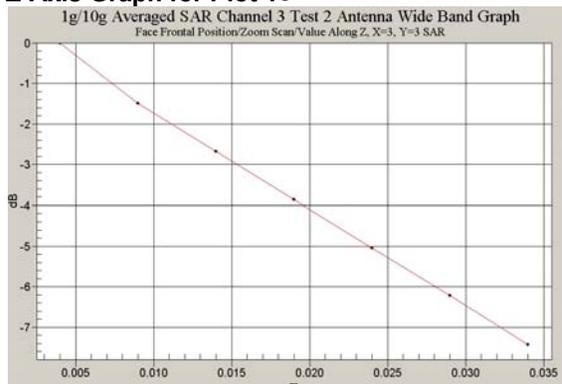
**Z-Axis Graph for Plot 16**



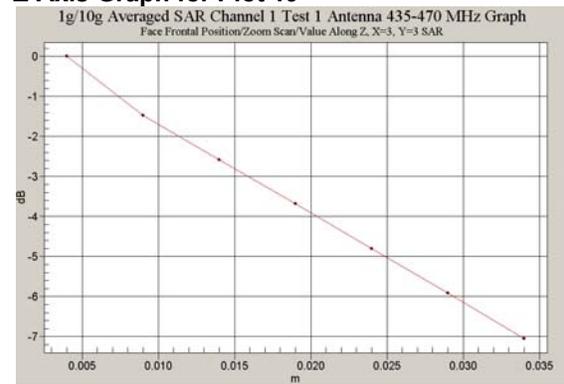
**Z-Axis Graph for Plot 17**



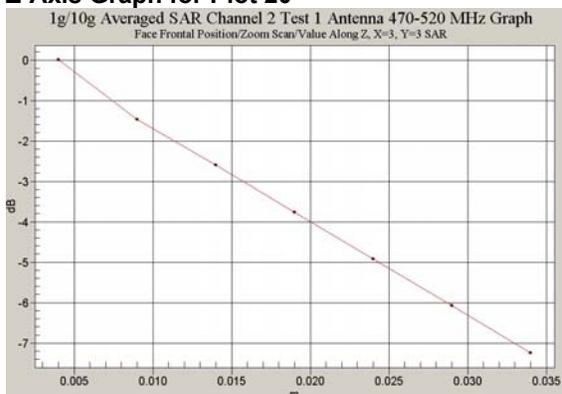
**Z-Axis Graph for Plot 18**



**Z-Axis Graph for Plot 19**



**Z-Axis Graph for Plot 20**



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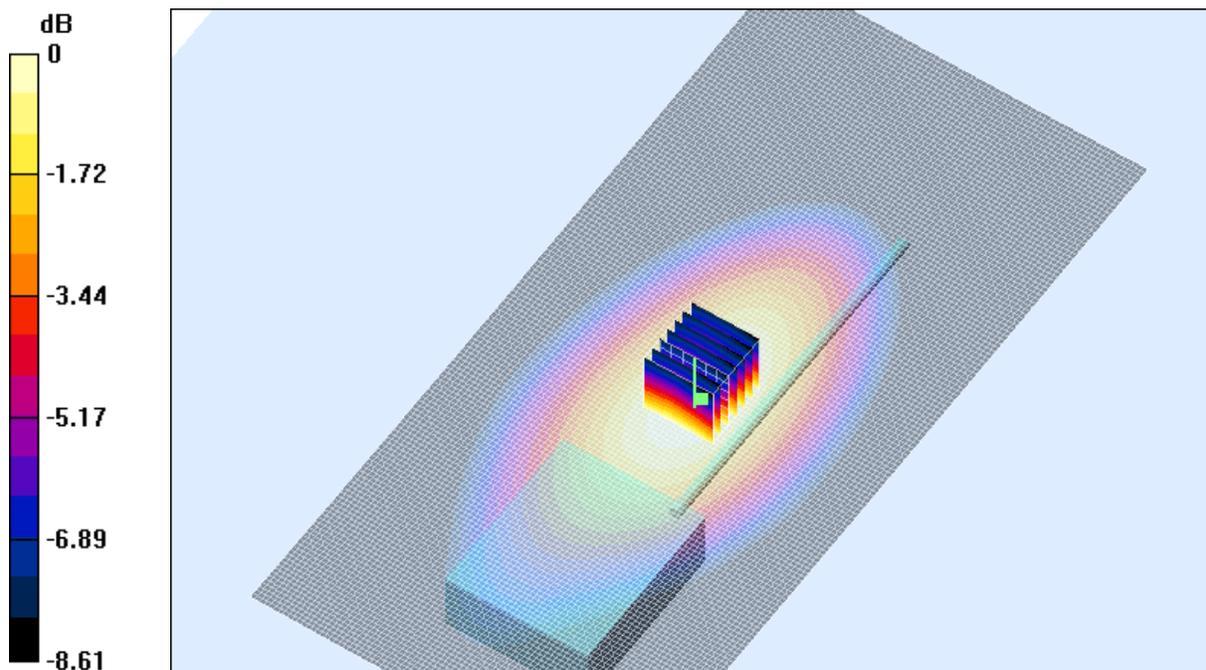
Test Date: 12 August 2004

File Name: [450 MHz Face Frontal SPK-MIC \(DAE442 Probe1377\) Ant Wide Band 12-08-04.da4](#)

DUT: Tait SPK-MIC Ant. Wide Band; Type: TPA-AA-204; Serial: Prototype

\* Communication System: CW 450 MHz; Frequency: 450 MHz; Duty Cycle: 1:1  
 \* Medium parameters used:  $\sigma = 0.847109$ ; mho/m,  $\epsilon_r = 43.2156$ ;  $\rho = 1000 \text{ kg/m}^3$   
 - Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(7, 7, 7)  
 - Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section  
**Channel 1 Test/Area Scan (81x171x1)**: Measurement grid: dx=20mm, dy=20mm  
 Reference Value = 19.5 V/m; Power Drift = -0.2 dB  
 Maximum value of SAR (interpolated) = 2.48 mW/g

**Channel 1 Test/Zoom Scan (7x7x7)/Cube 0**: Measurement grid: dx=5mm, dy=5mm, dz=5mm  
 Reference Value = 19.5 V/m; Power Drift = -0.2 dB  
 Maximum value of SAR (measured) = 2.48 mW/g  
 Peak SAR (extrapolated) = 3.75 W/kg  
**SAR(1 g) = 2.38 mW/g; SAR(10 g) = 1.68 mW/g**



0 dB = 2.48mW/g

**SAR MEASUREMENT PLOT 21**

Ambient Temperature  
 Liquid Temperature  
 Humidity

20.5 Degrees Celsius  
 20.0 Degrees Celsius  
 41.0 %



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Test Date: 12 August 2004

File Name: [450 MHz Face Frontal SPK-MIC \(DAE442 Probe1377\) Ant Wide Band 12-08-04.da4](#)

DUT: Tait SPK-MIC Ant. Wide Band; Type: TPA-AA-204; Serial: Prototype

\* Communication System: CW 450 MHz; Frequency: 485 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $\sigma = 0.874892$ ; mho/m,  $\epsilon_r = 42.708$ ;  $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(7, 7, 7)

- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

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

Reference Value = 26.2 V/m; Power Drift = -0.4 dB

Maximum value of SAR (interpolated) = 4.89 mW/g

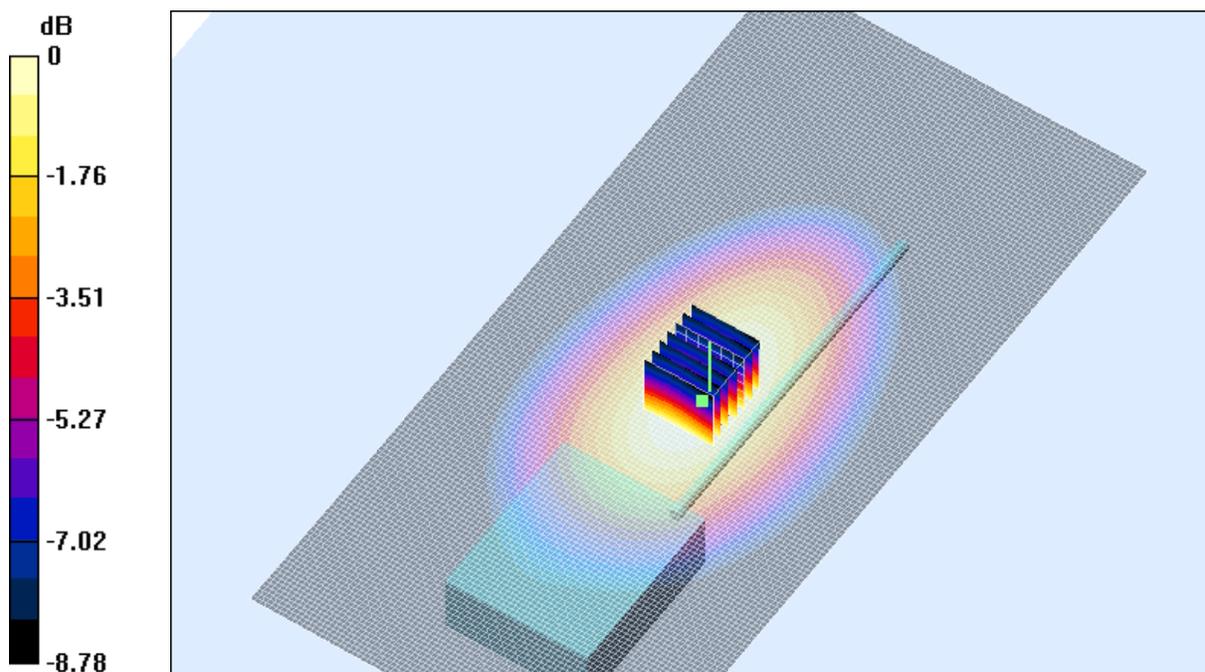
**Channel 2 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 26.2 V/m; Power Drift = -0.4 dB

Maximum value of SAR (measured) = 4.79 mW/g

Peak SAR (extrapolated) = 7.22 W/kg

**SAR(1 g) = 4.58 mW/g; SAR(10 g) = 3.21 mW/g**



0 dB = 4.79mW/g

**SAR MEASUREMENT PLOT 22**

Ambient Temperature  
Liquid Temperature  
Humidity

20.5 Degrees Celsius  
20.0 Degrees Celsius  
41.0 %



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Test Date: 12 August 2004

File Name: [450 MHz Face Frontal SPK-MIC \(DAE442 Probe1377\) Ant Wide Band 12-08-04.da4](#)

DUT: Tait SPK-MIC Ant. Wide Band; Type: TPA-AA-204; Serial: Prototype

\* Communication System: CW 450 MHz; Frequency: 520 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $\sigma = 0.894191$ ; mho/m,  $\epsilon_r = 41.487$ ;  $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(7, 7, 7)

- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

**Channel 3 Test/Area Scan (81x171x1):** Measurement grid: dx=20mm, dy=20mm

Reference Value = 31.2 V/m; Power Drift = -0.3 dB

Maximum value of SAR (interpolated) = 6.28 mW/g

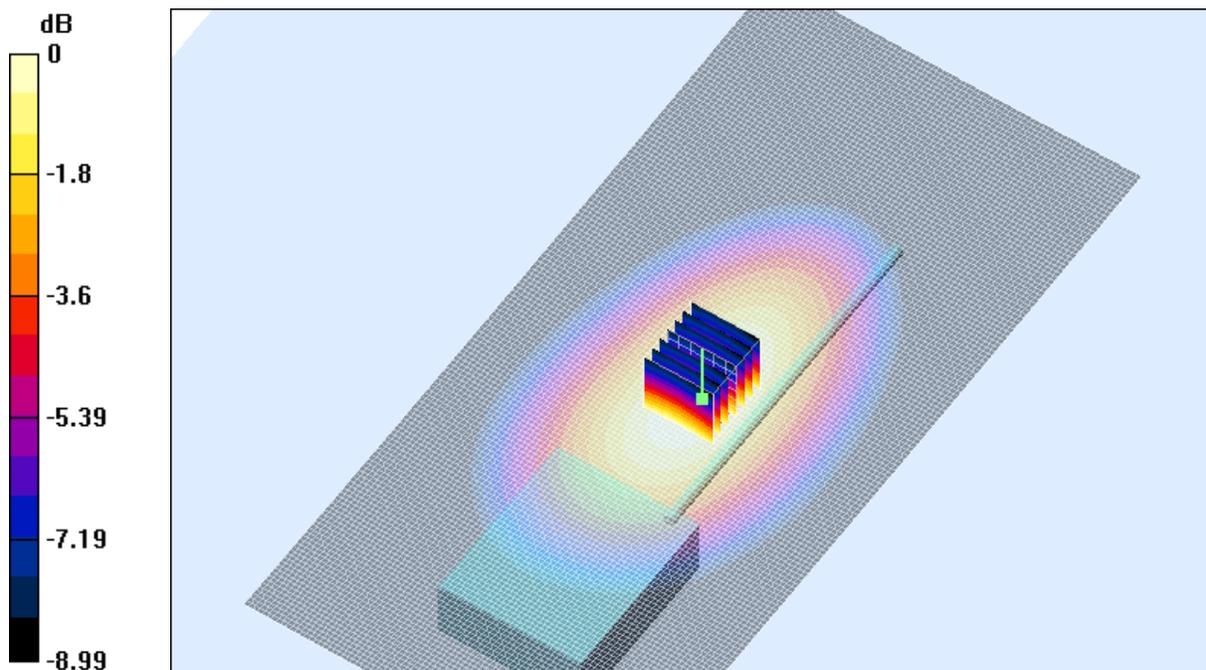
**Channel 3 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 31.2 V/m; Power Drift = -0.3 dB

Maximum value of SAR (measured) = 6.32 mW/g

Peak SAR (extrapolated) = 9.54 W/kg

**SAR(1 g) = 6.05 mW/g; SAR(10 g) = 4.21 mW/g**



0 dB = 6.32mW/g

**SAR MEASUREMENT PLOT 23**

Ambient Temperature  
Liquid Temperature  
Humidity

20.5 Degrees Celsius  
20.0 Degrees Celsius  
41.0 %



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Test Date: 12 August 2004

File Name: [450 MHz Face Frontal SPK-MIC \(DAE442 Probe1377\) Ant 435-470 MHz 12-08-04.da4](#)

DUT: Tait SPK-MIC Ant. 435-470 MHz; Type: TPA-AA-204; Serial: Prototype

- \* Communication System: CW 450 MHz; Frequency: 450 MHz; Duty Cycle: 1:1
- \* Medium parameters used:  $\sigma = 0.847109$ ; mho/m,  $\epsilon_r = 43.2156$ ;  $\rho = 1000 \text{ kg/m}^3$
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(7, 7, 7)
- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

**Channel 1 Test/Area Scan (81x131x1):** Measurement grid: dx=20mm, dy=20mm

Reference Value = 40.1 V/m; Power Drift = -0.1 dB

Maximum value of SAR (interpolated) = 2.83 mW/g

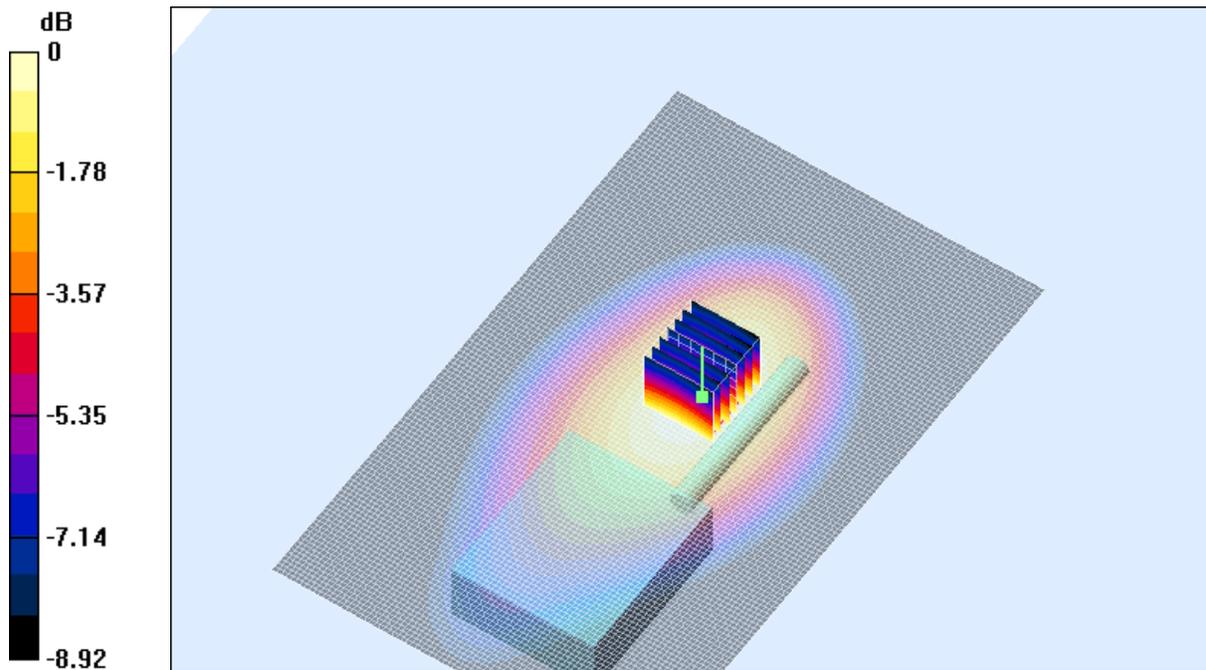
**Channel 1 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 40.1 V/m; Power Drift = -0.1 dB

Maximum value of SAR (measured) = 2.84 mW/g

Peak SAR (extrapolated) = 4.26 W/kg

**SAR(1 g) = 2.71 mW/g; SAR(10 g) = 1.9 mW/g**



0 dB = 2.84mW/g

**SAR MEASUREMENT PLOT 24**

Ambient Temperature  
 Liquid Temperature  
 Humidity

20.5 Degrees Celsius  
 20.0 Degrees Celsius  
 41.0 %



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Test Date: 12 August 2004

File Name: [450 MHz Face Frontal SPK-MIC \(DAE442 Probe1377\) Ant 470-520 MHz 12-08-04.da4](#)

DUT: Tait SPK-MIC Ant. 470-520 MHz; Type: TPA-AA-204; Serial: Prototype

\* Communication System: CW 450 MHz; Frequency: 485 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $\sigma = 0.874892$ ; mho/m,  $\epsilon_r = 42.708$ ;  $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(7, 7, 7)

- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

**Channel 2 Test/Area Scan (81x131x1):** Measurement grid: dx=20mm, dy=20mm

Reference Value = 45.9 V/m; Power Drift = -0.1 dB

Maximum value of SAR (interpolated) = 3.84 mW/g

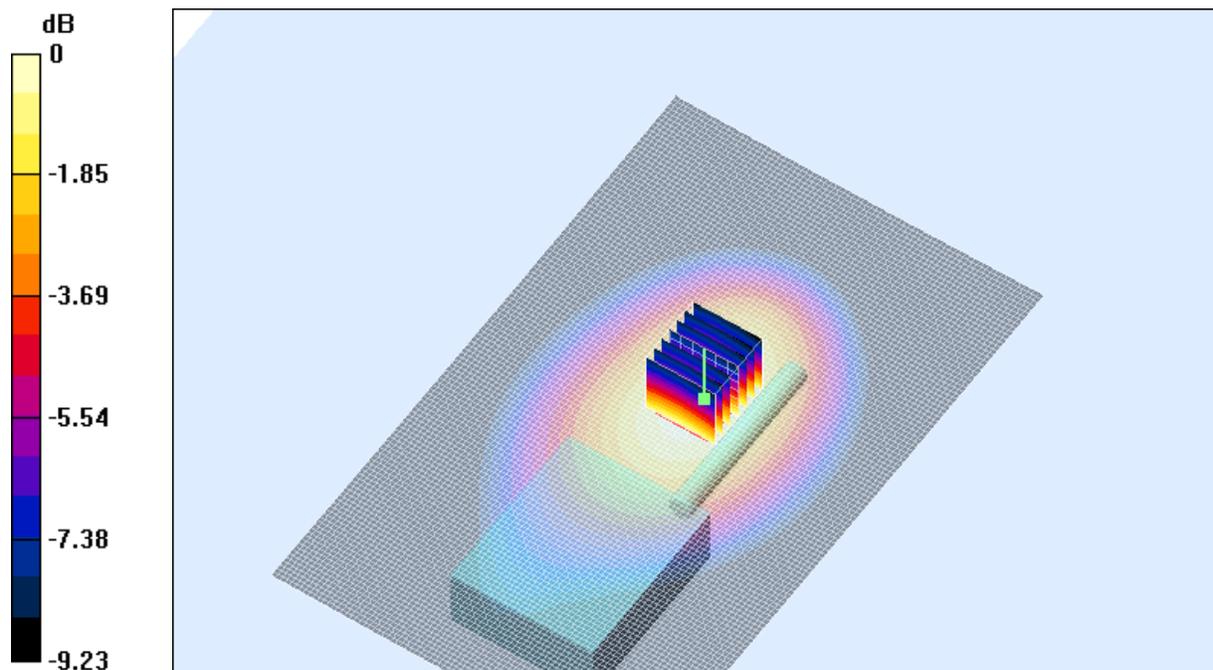
**Channel 2 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 45.9 V/m; Power Drift = -0.1 dB

Maximum value of SAR (measured) = 3.89 mW/g

Peak SAR (extrapolated) = 5.85 W/kg

**SAR(1 g) = 3.71 mW/g; SAR(10 g) = 2.58 mW/g**



0 dB = 3.89mW/g

**SAR MEASUREMENT PLOT 25**

Ambient Temperature

20.5 Degrees Celsius

Liquid Temperature

20.0 Degrees Celsius

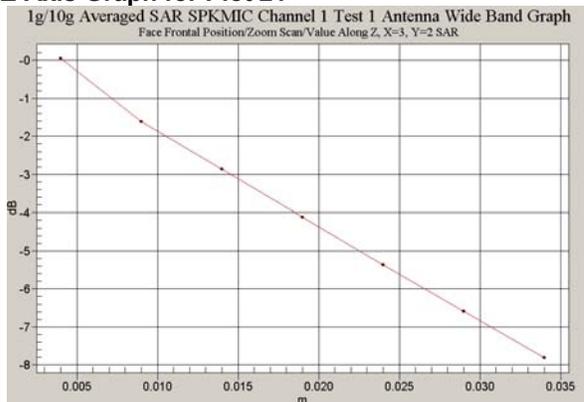
Humidity

41.0 %

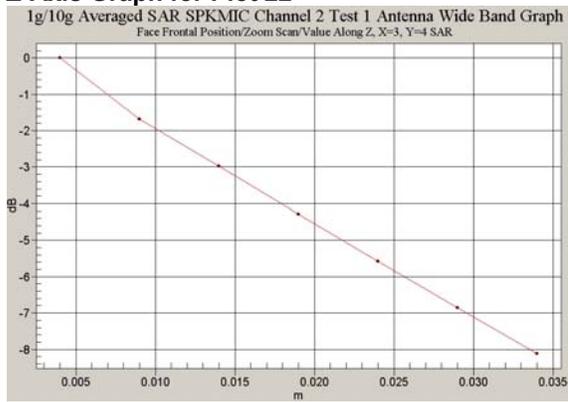


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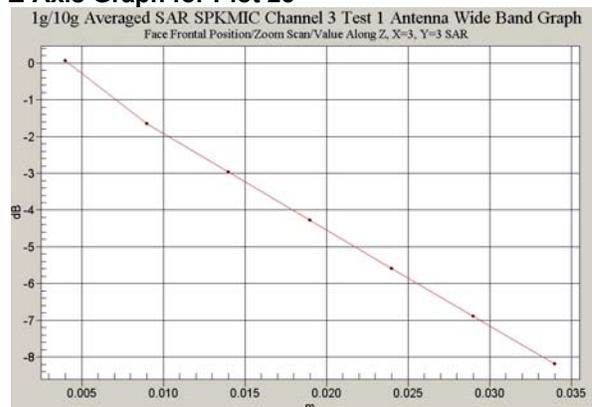
**Z-Axis Graph for Plot 21**



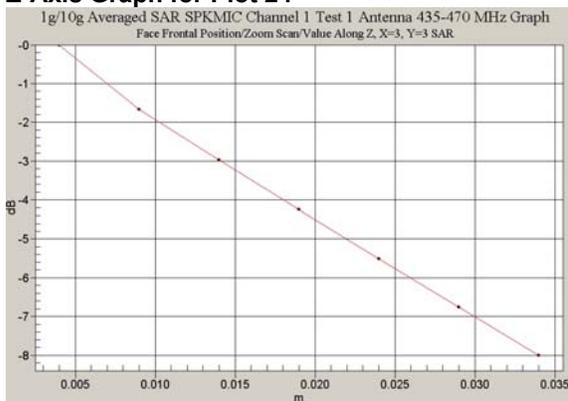
**Z-Axis Graph for Plot 22**



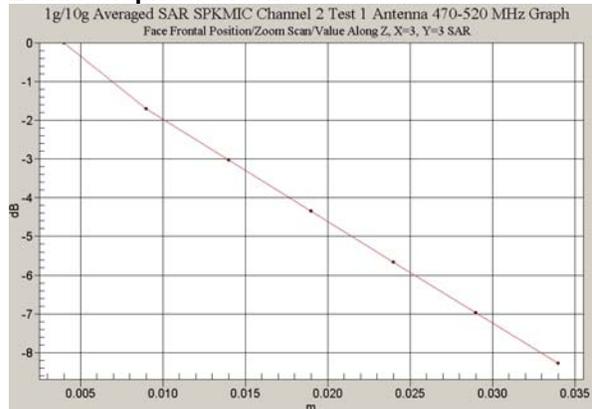
**Z-Axis Graph for Plot 23**



**Z-Axis Graph for Plot 24**



**Z-Axis Graph for Plot 25**



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Test Date: 10 August 2004

File Name: [Validation 450 MHz Head \(DAE442 Probe1377\) 10-08-04.da4](#)

DUT: Dipole 450 MHz; Type: D450V2; Serial: 1009

- \* Communication System: CW 450 MHz; Frequency: 450 MHz; Duty Cycle: 1:1
- \* Medium parameters used:  $\sigma = 0.839854$ ; mho/m,  $\epsilon_r = 42.1153$ ;  $\rho = 1000 \text{ kg/m}^3$
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(7, 7, 7)
- Phantom: Flat Phantom 4.4; Serial: P 4.4; Phantom section: Flat Section

**Channel 1Test/Area Scan (61x61x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 40.9 V/m; Power Drift = -0.007 dB

Maximum value of SAR (interpolated) = 1.42 mW/g

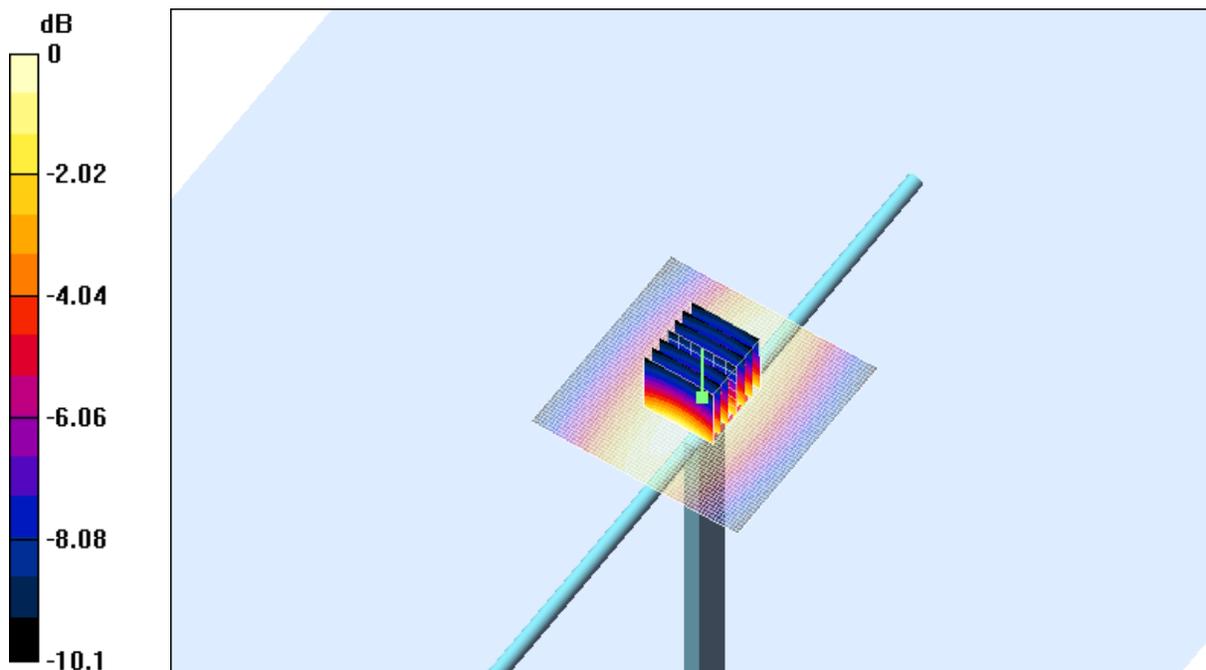
**Channel 1Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 40.9 V/m; Power Drift = -0.007 dB

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

Peak SAR (extrapolated) = 2.37 W/kg

**SAR(1 g) = 1.34 mW/g; SAR(10 g) = 0.862 mW/g**



0 dB = 1.43mW/g

**SAR MEASUREMENT PLOT 26**

Ambient Temperature  
 Liquid Temperature  
 Humidity

20.0 Degrees Celsius  
 19.4 Degrees Celsius  
 41.0 %



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Test Date: 11 August 2004

File Name: [Validation 450 MHz Head \(DAE442 Probe1377\) 11-08-04.da4](#)

DUT: Dipole 450 MHz; Type: D450V2; Serial: 1009

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

\* Medium parameters used:  $\sigma = 0.863421$ ; mho/m,  $\epsilon_r = 42.8759$ ;  $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(7, 7, 7)

- Phantom: Flat Phantom 4.4; Serial: P 4.4; Phantom section: Flat Section

**Channel 1Test 2/Area Scan (61x61x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 40.5 V/m; Power Drift = 0.0 dB

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

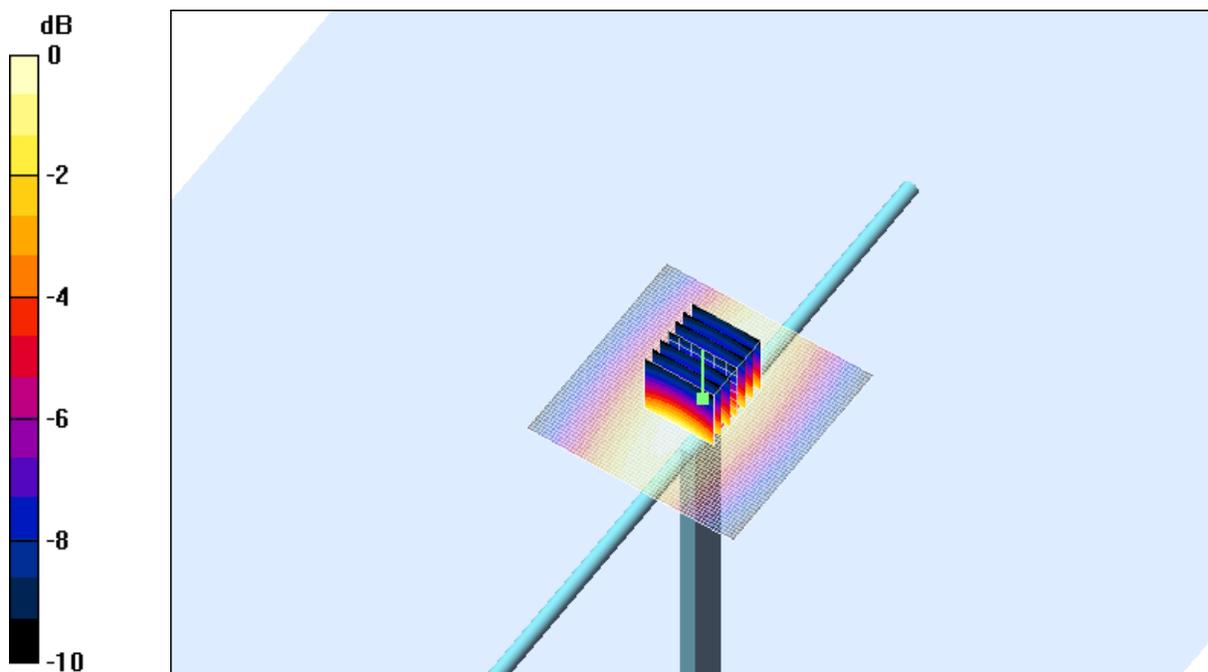
**Channel 1Test 2/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 40.5 V/m; Power Drift = 0.0 dB

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

Peak SAR (extrapolated) = 2.29 W/kg

**SAR(1 g) = 1.33 mW/g; SAR(10 g) = 0.861 mW/g**



0 dB = 1.41mW/g

**SAR MEASUREMENT PLOT 27**

Ambient Temperature  
Liquid Temperature  
Humidity

20.3 Degrees Celsius  
19.7 Degrees Celsius  
42.0 %



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Test Date: 12 August 2004

File Name: [Validation 450 MHz Head \(DAE442 Probe1377\) 12-08-04.da4](#)

DUT: Dipole 450 MHz; Type: D450V2; Serial: 1009

- \* Communication System: CW 450 MHz; Frequency: 450 MHz; Duty Cycle: 1:1
- \* Medium parameters used:  $\sigma = 0.847109$ ; mho/m,  $\epsilon_r = 43.2156$ ;  $\rho = 1000 \text{ kg/m}^3$
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(7, 7, 7)
- Phantom: Flat Phantom 4.4; Serial: P 4.4; Phantom section: Flat Section

**Channel 1Test/Area Scan (61x61x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 40 V/m; Power Drift = -0.0 dB

Maximum value of SAR (interpolated) = 1.36 mW/g

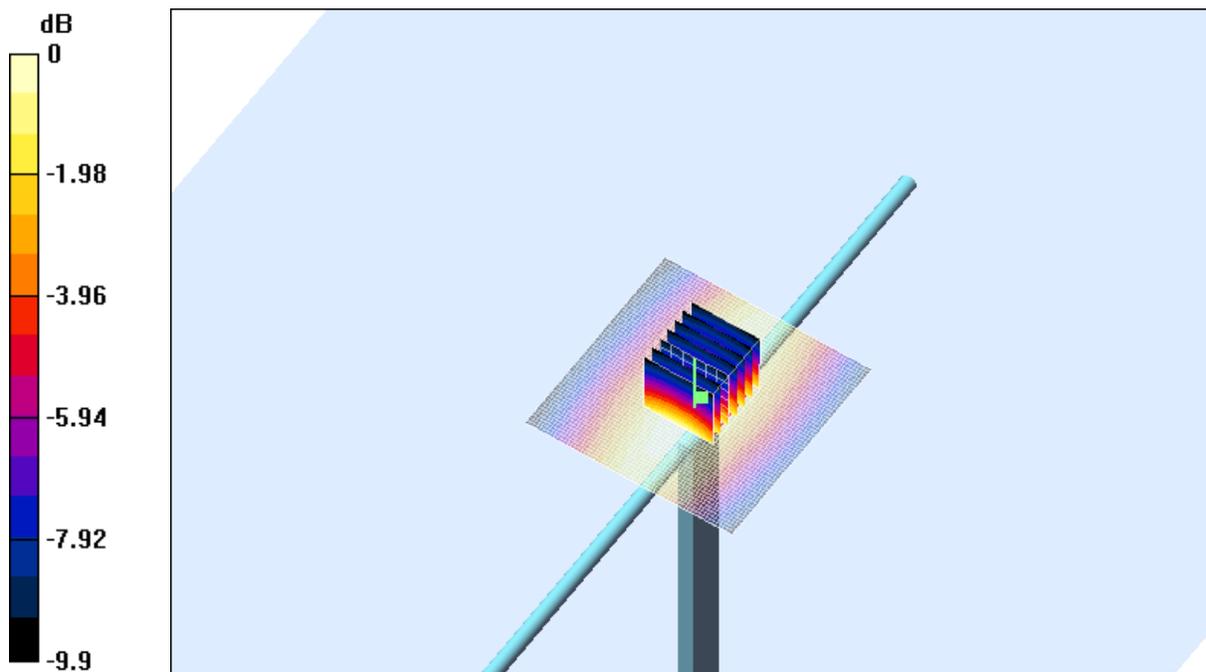
**Channel 1Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 40 V/m; Power Drift = -0.0 dB

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

Peak SAR (extrapolated) = 2.17 W/kg

**SAR(1 g) = 1.29 mW/g; SAR(10 g) = 0.837 mW/g**



0 dB = 1.35mW/g

**SAR MEASUREMENT PLOT 28**

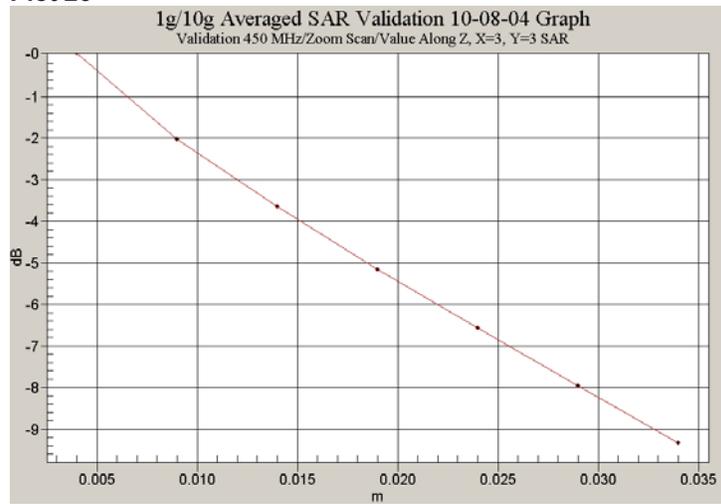
Ambient Temperature  
 Liquid Temperature  
 Humidity

20.5 Degrees Celsius  
 20.0 Degrees Celsius  
 41.0 %

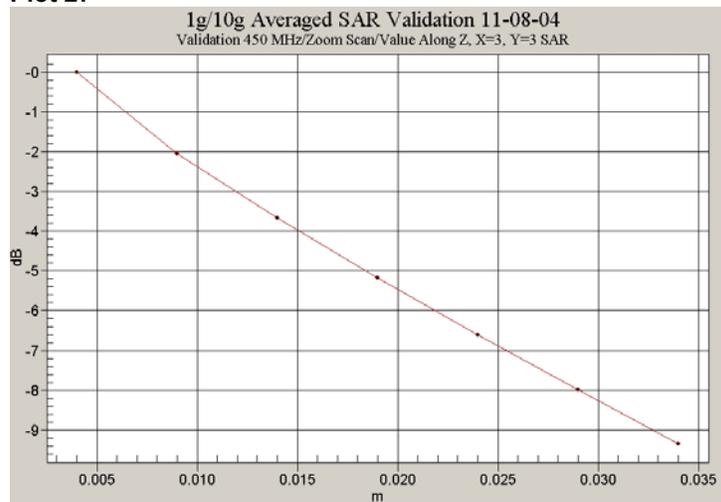


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**Z-Axis Graph for Plot 26**



**Z-Axis Graph for Plot 27**



## **APPENDIX C**

### **SAR TESTING EQUIPMENT CALIBRATION CERTIFICATE ATTACHMENTS**

#### **Calibration Certificate Attachments**

- |  |          |
|--|----------|
| 1. 450 MHz Dipole Calibration Sheet            | 6 Pages  |
| 2. E-Field Probe Calibration Sheet             | 10 Pages |
| 3. E-Field Probe Additional Conversion Factors | 2 Pages  |



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