

## 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: SAR Measurement Plot Numbers**

1. Test Position	2. Plot No.	3. Antenna Type	4. Test Freq (MHz)
Face Frontal	1	$\frac{1}{4}$ Wave	806MHz
	2	$\frac{1}{4}$ Wave	835MHz
	3	$\frac{1}{4}$ Wave	870MHz
	4	$\frac{1}{2}$ Wave	806MHz
	5	$\frac{1}{2}$ Wave	835MHz
	6	$\frac{1}{2}$ Wave	870MHz
Belt Clip	7	$\frac{1}{4}$ Wave	806MHz
	8	$\frac{1}{4}$ Wave	835MHz
	9	$\frac{1}{4}$ Wave	870MHz
	10	$\frac{1}{2}$ Wave	806MHz
	11	$\frac{1}{2}$ Wave	835MHz
	12	$\frac{1}{2}$ Wave	870MHz
Leather Pouch	13	$\frac{1}{4}$ Wave	835MHz
	14	$\frac{1}{2}$ Wave	835MHz
Nylon Pouch	15	$\frac{1}{4}$ Wave	835MHz
	16	$\frac{1}{2}$ Wave	835MHz
Belt Clip No-key Variant	17	$\frac{1}{4}$ Wave	806MHz
Belt Clip 4-key Variant	18	$\frac{1}{4}$ Wave	806MHz

**Table: Validation Plot Numbers**

Date	Plot Number	Frequency
6 <sup>th</sup> January 2009	19	900 MHz
7 <sup>th</sup> January 2009	20	900 MHz
8 <sup>th</sup> January 2009	21	900 MHz
18 <sup>th</sup> January 2009	22	900 MHz



**Test Date: 08 January 2009**

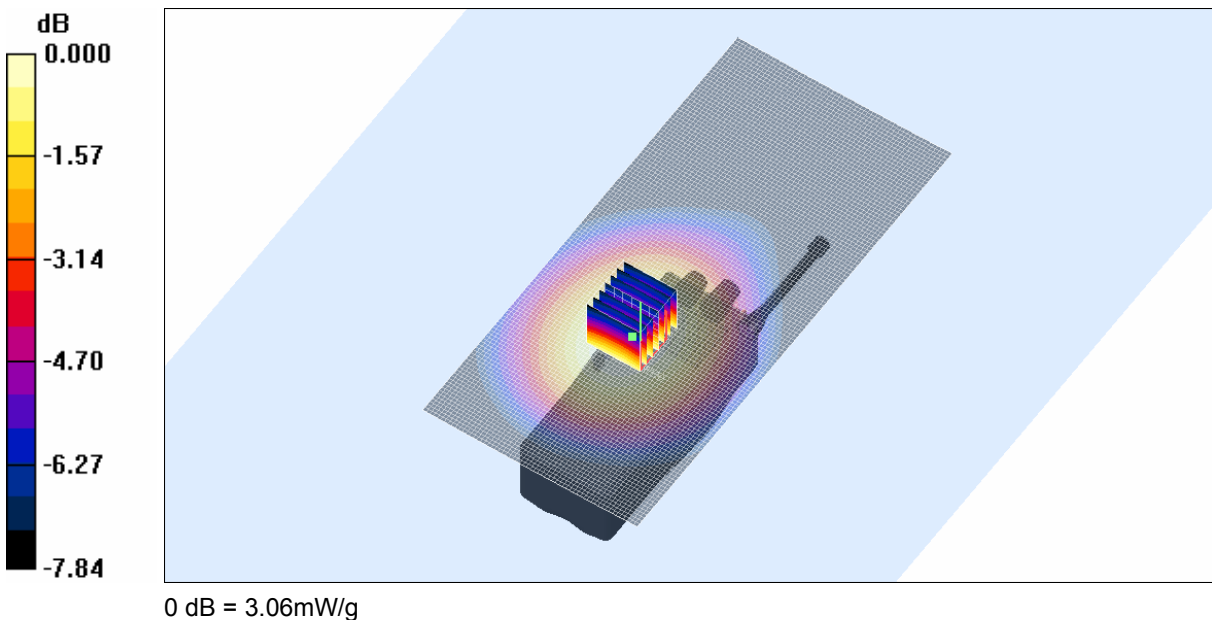
**File Name: 840 MHz Face Frontal 0.25 Wave Antenna (DAE359 Probe 3563) 08-01-09.da4**

**DUT: Tait Handheld Transceiver; Type: TPCK6A; Serial: 25071823**

- \* Communication System: CW 840 MHz; Frequency: 806 MHz; Duty Cycle: 1:1
- \* Medium parameters used:  $f = 804$  MHz;  $\sigma = 0.876$  mho/m;  $\epsilon_r = 42.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>
- Electronics: DAE3 Sn359; Probe: EX3DV4 - SN3563; ConvF(8.3, 8.3, 8.3)
- Phantom: Flat Phantom 9.1; Serial: P 9.1; Phantom section: Flat 2.2 Section

**Channel 1 Test/Area Scan (61x131x1):** Measurement grid: dx=20mm, dy=20mm  
Maximum value of SAR (interpolated) = 3.25 mW/g

**Channel 1 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 23.2 V/m; Power Drift = -0.475 dB  
Peak SAR (extrapolated) = 3.77 W/kg  
**SAR(1 g) = 2.92 mW/g; SAR(10 g) = 2.18 mW/g**  
Maximum value of SAR (measured) = 3.06 mW/g

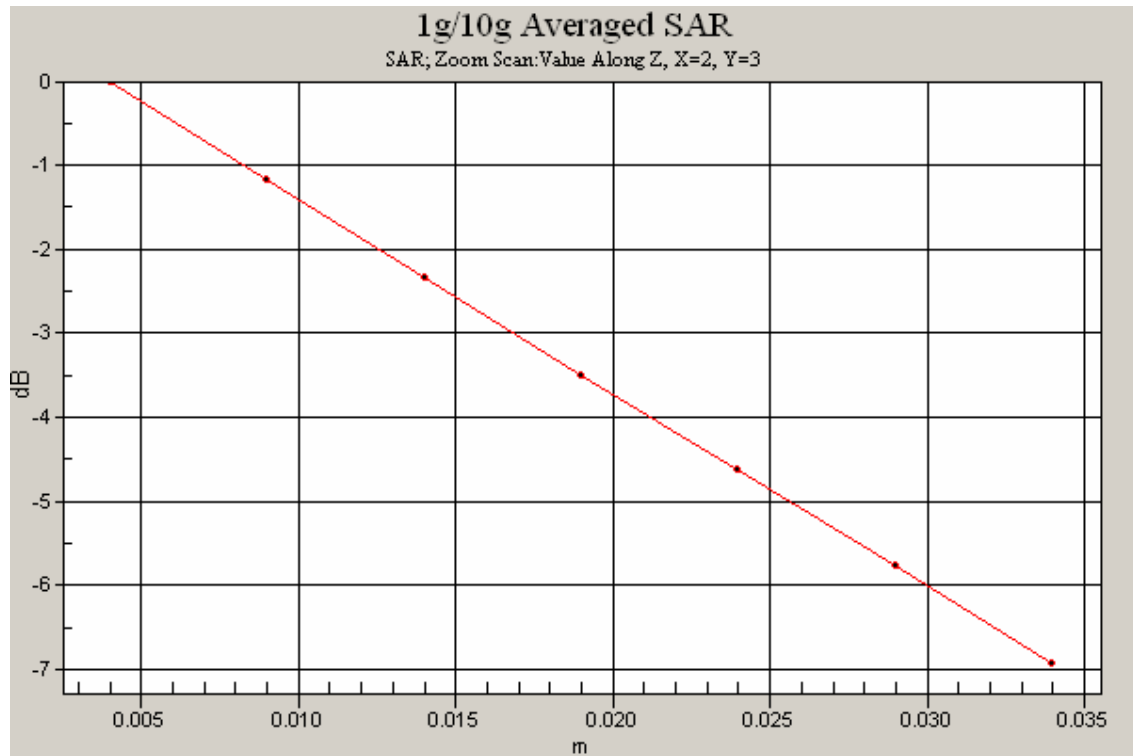


**SAR MEASUREMENT PLOT 1**

**Ambient Temperature**  
**Liquid Temperature**  
**Humidity**

**19.7 Degrees Celsius**  
**19.5 Degrees Celsius**  
**58.0 %**





Test Date: 08 January 2009

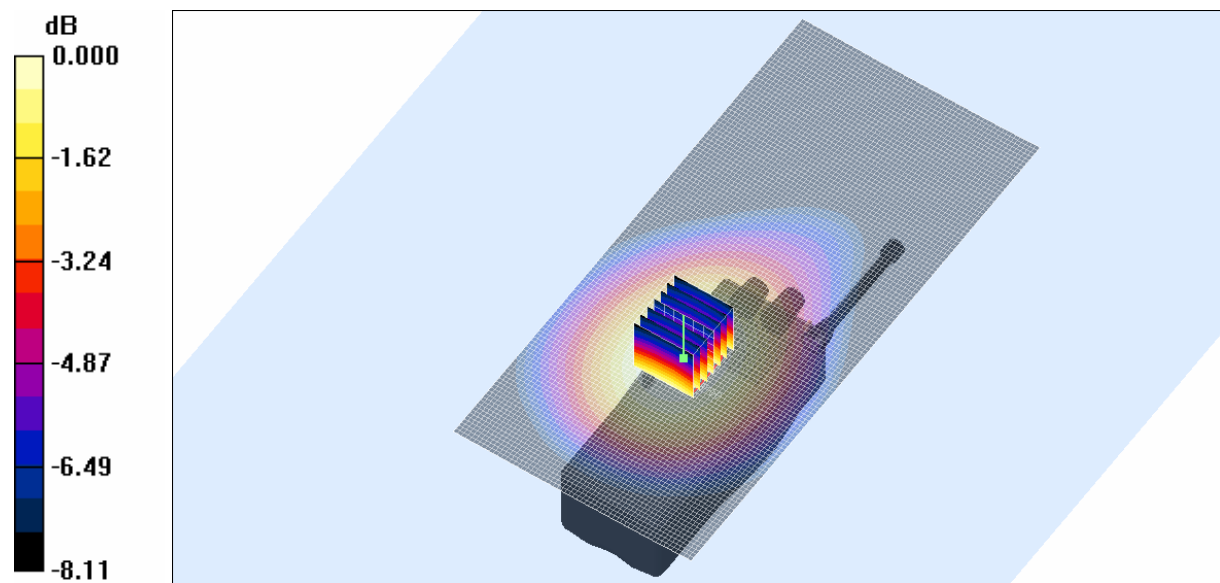
File Name: 840 MHz Face Frontal 0.25 Wave Antenna (DAE359 Probe 3563) 08-01-09.da4

DUT: Tait Handheld Transceiver; Type: TPCK6A; Serial: 25071823

- \* Communication System: CW 840 MHz; Frequency: 835 MHz; Duty Cycle: 1:1
- \* Medium parameters used:  $f = 836$  MHz;  $\sigma = 0.905$  mho/m;  $\epsilon_r = 42.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>
- Electronics: DAE3 Sn359; Probe: EX3DV4 - SN3563; ConvF(8.3, 8.3, 8.3)
- Phantom: Flat Phantom 9.1; Serial: P 9.1; Phantom section: Flat 2.2 Section

**Channel 2 Test/Area Scan (61x131x1):** Measurement grid: dx=20mm, dy=20mm  
Maximum value of SAR (interpolated) = 2.68 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 = -0.101 dB  
Peak SAR (extrapolated) = 3.13 W/kg  
**SAR(1 g) = 2.39 mW/g; SAR(10 g) = 1.77 mW/g**  
Maximum value of SAR (measured) = 2.51 mW/g



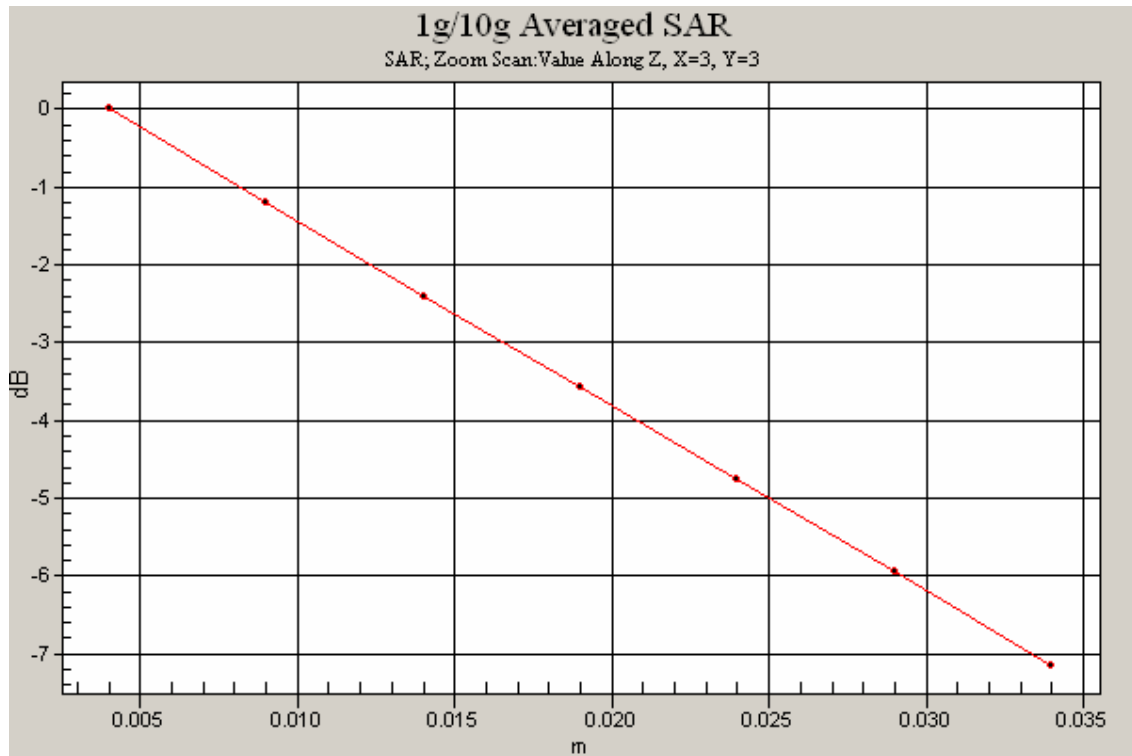
**SAR MEASUREMENT PLOT 2**

Ambient Temperature  
Liquid Temperature  
Humidity

19.7 Degrees Celsius  
19.5 Degrees Celsius  
58.0 %



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Test Date: 08 January 2009

File Name: 840 MHz Face Frontal 0.25 Wave Antenna (DAE359 Probe 3563) 08-01-09.da4

DUT: Tait Handheld Transceiver; Type: TPCK6A; Serial: 25071823

\* Communication System: CW 840 MHz; Frequency: 870 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $f = 868 \text{ MHz}$ ;  $\sigma = 0.936 \text{ mho/m}$ ;  $\epsilon_r = 42$ ;  $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn359; Probe: EX3DV4 - SN3563; ConvF(8.3, 8.3, 8.3)

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

**Channel 3/Area Scan (61x131x1):** Measurement grid:  $dx=20\text{mm}$ ,  $dy=20\text{mm}$

Maximum value of SAR (interpolated) = 2.60 mW/g

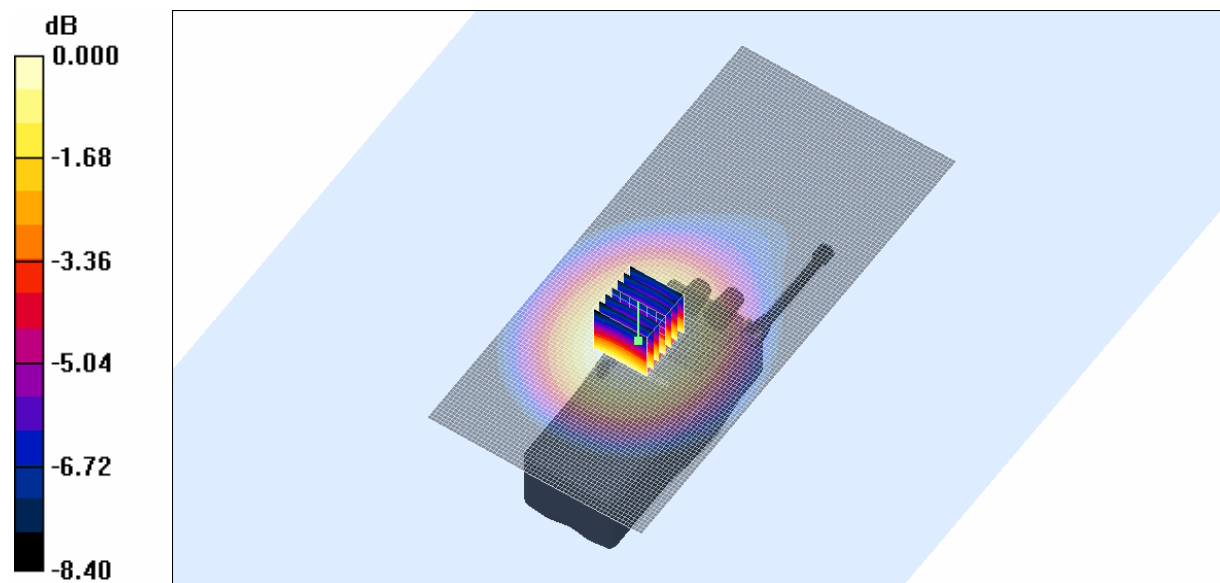
**Channel 3/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  
 $dz=5\text{mm}$

Reference Value = 21.4 V/m; Power Drift = -0.026 dB

Peak SAR (extrapolated) = 3.04 W/kg

**SAR(1 g) = 2.3 mW/g; SAR(10 g) = 1.69 mW/g**

Maximum value of SAR (measured) = 2.43 mW/g



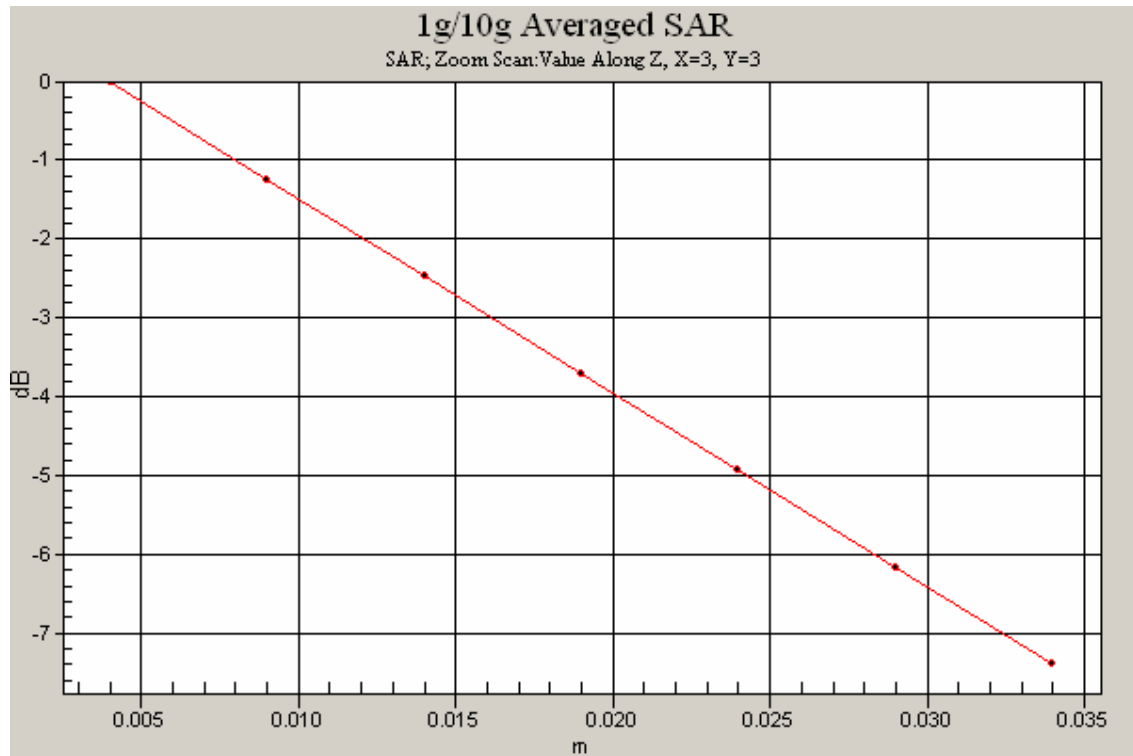
0 dB = 2.43mW/g

**SAR MEASUREMENT PLOT 3**

Ambient Temperature  
Liquid Temperature  
Humidity

19.7 Degrees Celsius  
19.5 Degrees Celsius  
58.0 %





Test Date: 08 January 2009

File Name: 840 MHz Face Frontal 0.5 Wave Antenna (DAE359 Probe 3563) 08-01-09.da4

DUT: Tait Handheld Transceiver; Type: TPCK6A; Serial: 25071823

\* Communication System: CW 840 MHz; Frequency: 806 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $f = 804$  MHz;  $\sigma = 0.876$  mho/m;  $\epsilon_r = 42.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE3 Sn359; Probe: EX3DV4 - SN3563; ConvF(8.3, 8.3, 8.3)

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

**Channel 1 Test/Area Scan (61x181x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 2.47 mW/g

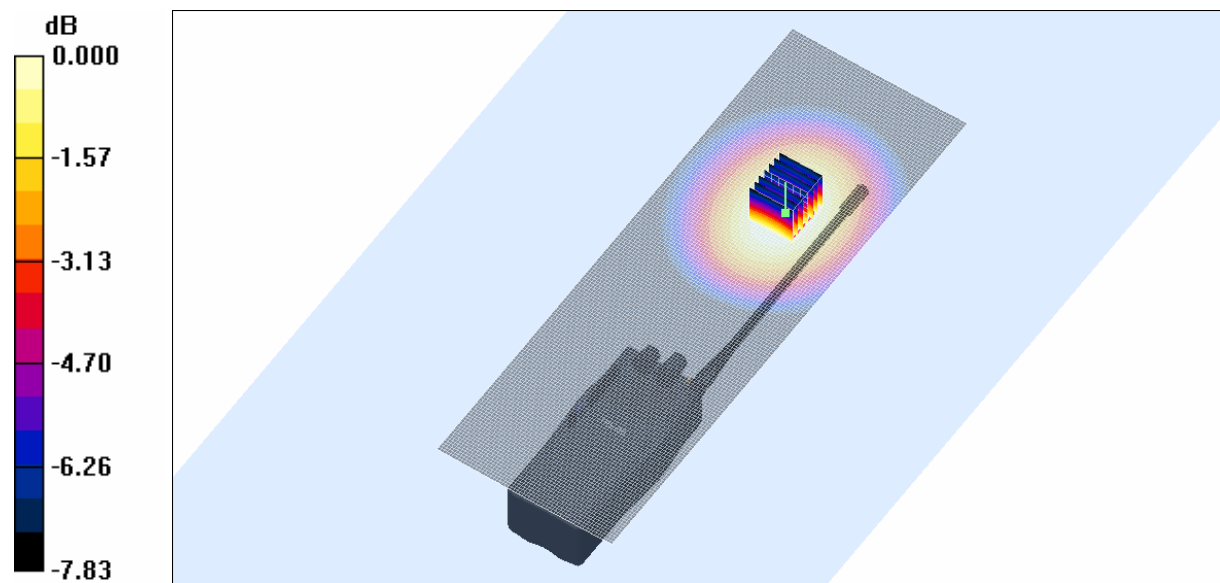
**Channel 1 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 49.4 V/m; Power Drift = -0.478 dB

Peak SAR (extrapolated) = 2.89 W/kg

**SAR(1 g) = 2.21 mW/g; SAR(10 g) = 1.63 mW/g**

Maximum value of SAR (measured) = 2.32 mW/g



0 dB = 2.32mW/g

**SAR MEASUREMENT PLOT 4**

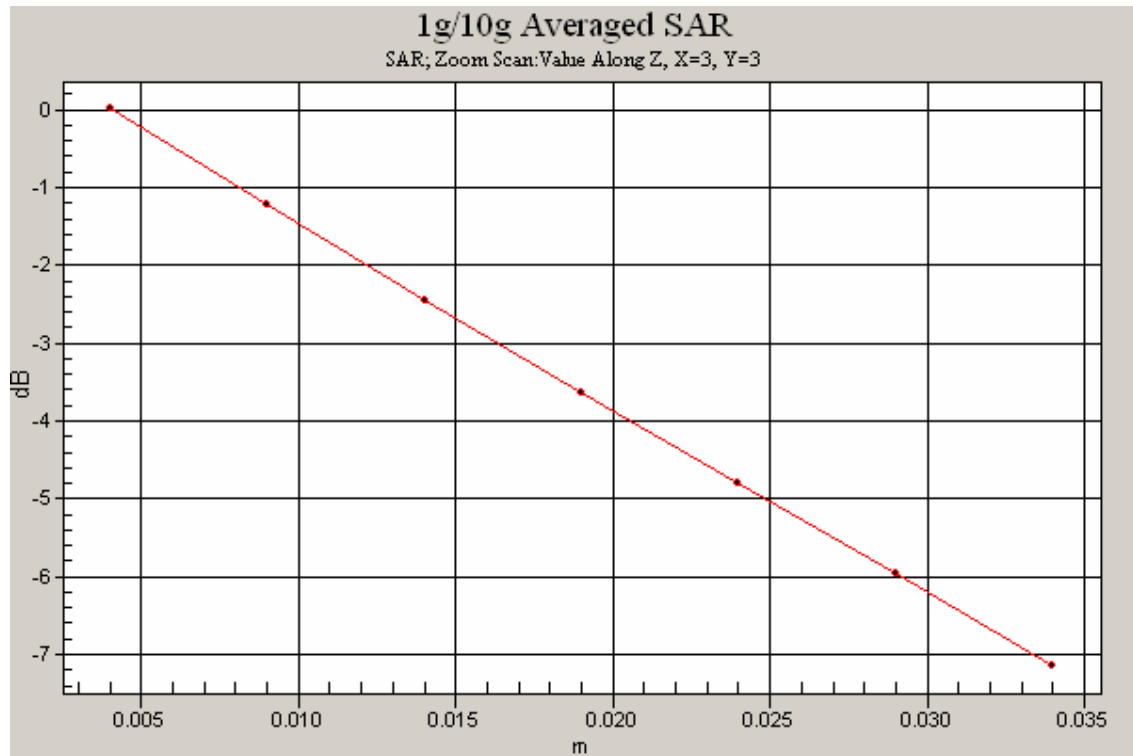
Ambient Temperature  
Liquid Temperature  
Humidity

19.7 Degrees Celsius  
19.5 Degrees Celsius  
58.0 %



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Test Date: 08 January 2009

File Name: 840 MHz Face Frontal 0.5 Wave Antenna (DAE359 Probe 3563) 08-01-09.da4

DUT: Tait Handheld Transceiver; Type: TPCK6A; Serial: 25071823

\* Communication System: CW 840 MHz; Frequency: 835 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $f = 836$  MHz;  $\sigma = 0.905$  mho/m;  $\epsilon_r = 42.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE3 Sn359; Probe: EX3DV4 - SN3563; ConvF(8.3, 8.3, 8.3)

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

**Channel 2 Test/Area Scan (61x181x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 2.05 mW/g

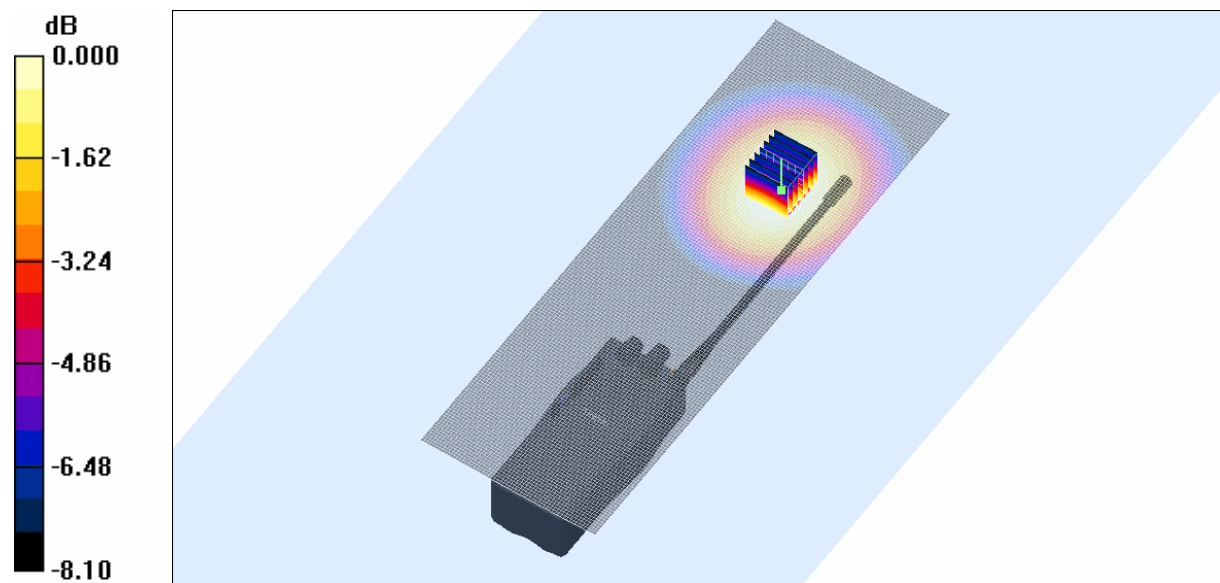
**Channel 2 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 39.9 V/m; Power Drift = -0.454 dB

Peak SAR (extrapolated) = 2.45 W/kg

**SAR(1 g) = 1.85 mW/g; SAR(10 g) = 1.36 mW/g**

Maximum value of SAR (measured) = 1.94 mW/g



0 dB = 1.94mW/g

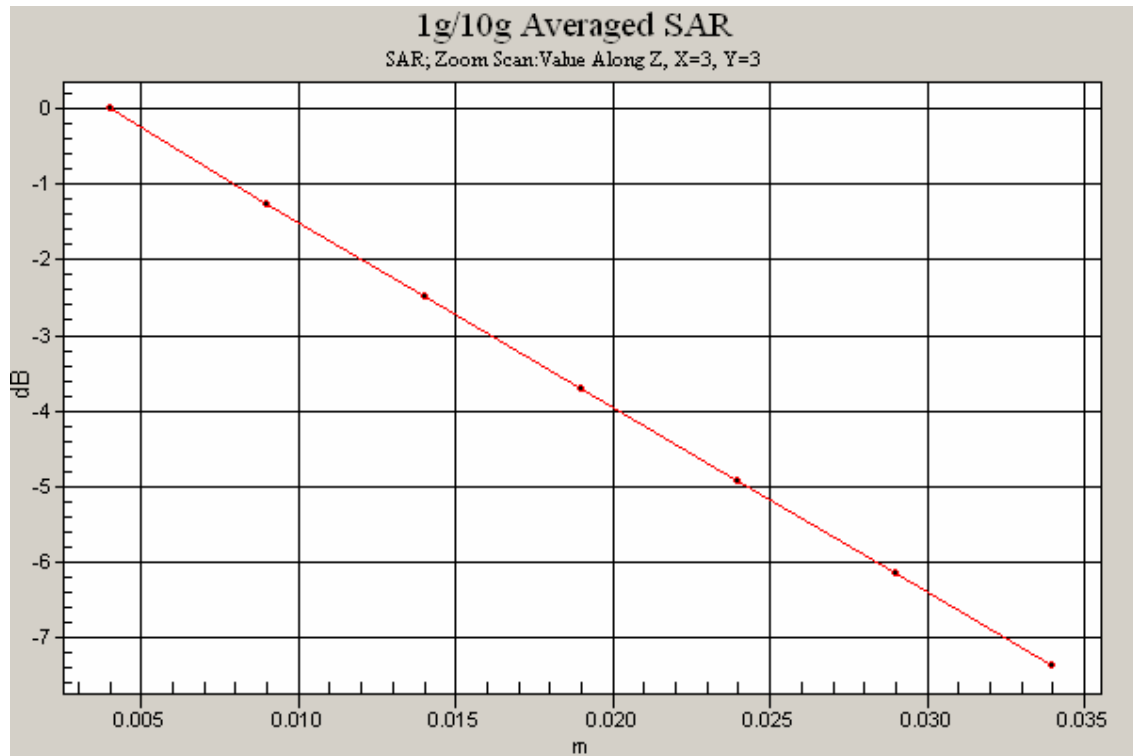
**SAR MEASUREMENT PLOT 5**

Ambient Temperature  
Liquid Temperature  
Humidity

19.7 Degrees Celsius  
19.5 Degrees Celsius  
58.0 %



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Test Date: 08 January 2009

File Name: 840 MHz Face Frontal 0.5 Wave Antenna (DAE359 Probe 3563) 08-01-09.da4

DUT: Tait Handheld Transceiver; Type: TPCK6A; Serial: 25071823

\* Communication System: CW 840 MHz; Frequency: 870 MHz; Duty Cycle: 1:1

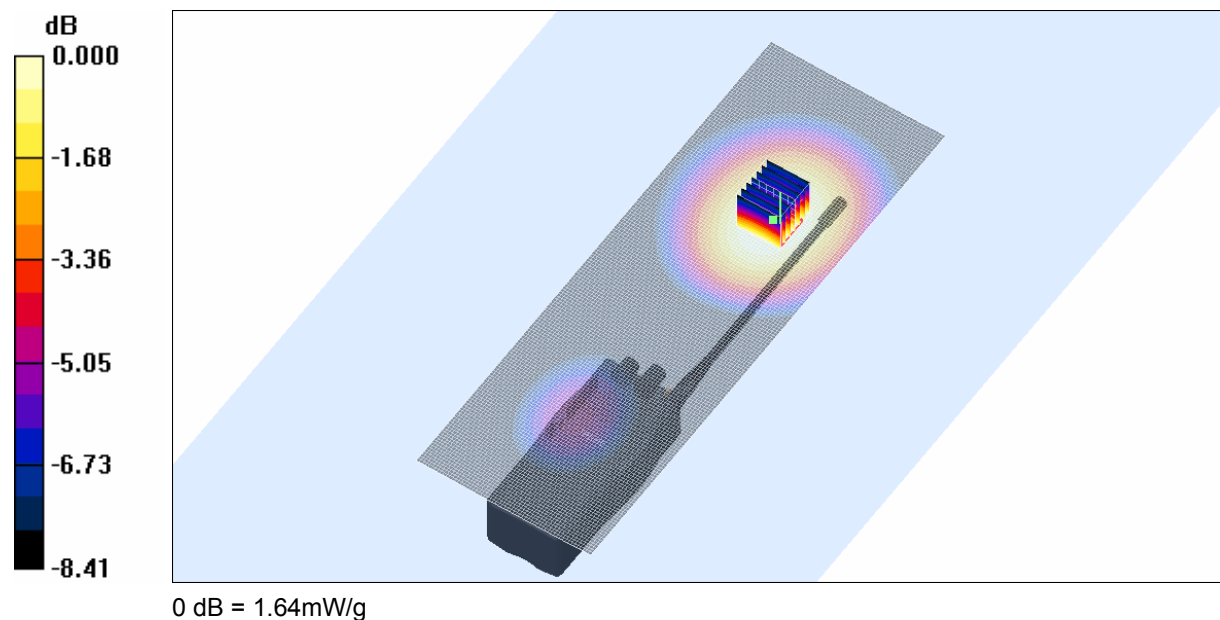
\* Medium parameters used:  $f = 868 \text{ MHz}$ ;  $\sigma = 0.936 \text{ mho/m}$ ;  $\epsilon_r = 42$ ;  $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn359; Probe: EX3DV4 - SN3563; ConvF(8.3, 8.3, 8.3)

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

**Channel 3/Area Scan (61x181x1):** Measurement grid:  $dx=20\text{mm}$ ,  $dy=20\text{mm}$   
Maximum value of SAR (interpolated) =  $1.79 \text{ mW/g}$

**Channel 3/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  
 $dz=5\text{mm}$   
Reference Value =  $40.1 \text{ V/m}$ ; Power Drift =  $0.032 \text{ dB}$   
Peak SAR (extrapolated) =  $2.07 \text{ W/kg}$   
**SAR(1 g) =  $1.56 \text{ mW/g}$ ; SAR(10 g) =  $1.14 \text{ mW/g}$**   
Maximum value of SAR (measured) =  $1.64 \text{ mW/g}$

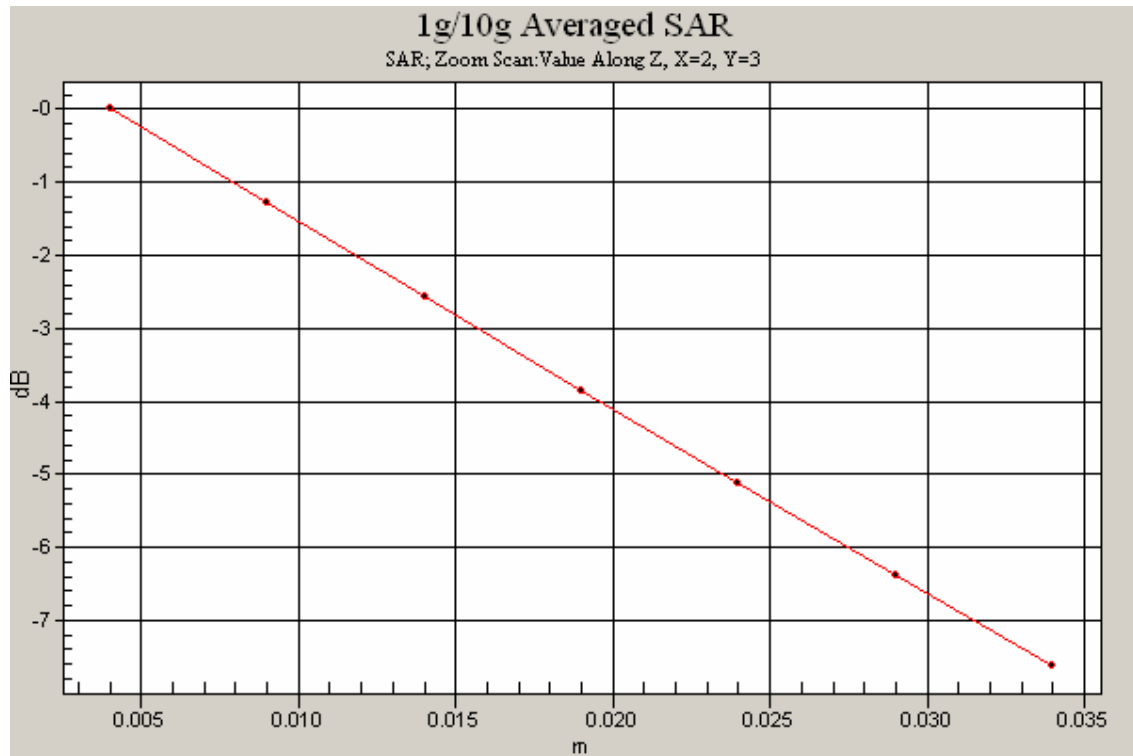


Ambient Temperature  
Liquid Temperature  
Humidity

19.7 Degrees Celsius  
19.5 Degrees Celsius  
58.0 %



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Test Date: 07 January 2009

File Name: 840 MHz Belt Clip 0.25 Wave Antenna (DAE359 Probe 3563) 07-01-09.da4

DUT: Tait Handheld Transceiver; Type: TPCK6A; Serial: 25071823

\* Communication System: CW 840 MHz; Frequency: 806 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $f = 804$  MHz;  $\sigma = 0.948$  mho/m;  $\epsilon_r = 53.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE3 Sn359; Probe: EX3DV4 - SN3563; ConvF(8.38, 8.38, 8.38)

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

**Channel 1 Test/Area Scan (61x131x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 8.09 mW/g

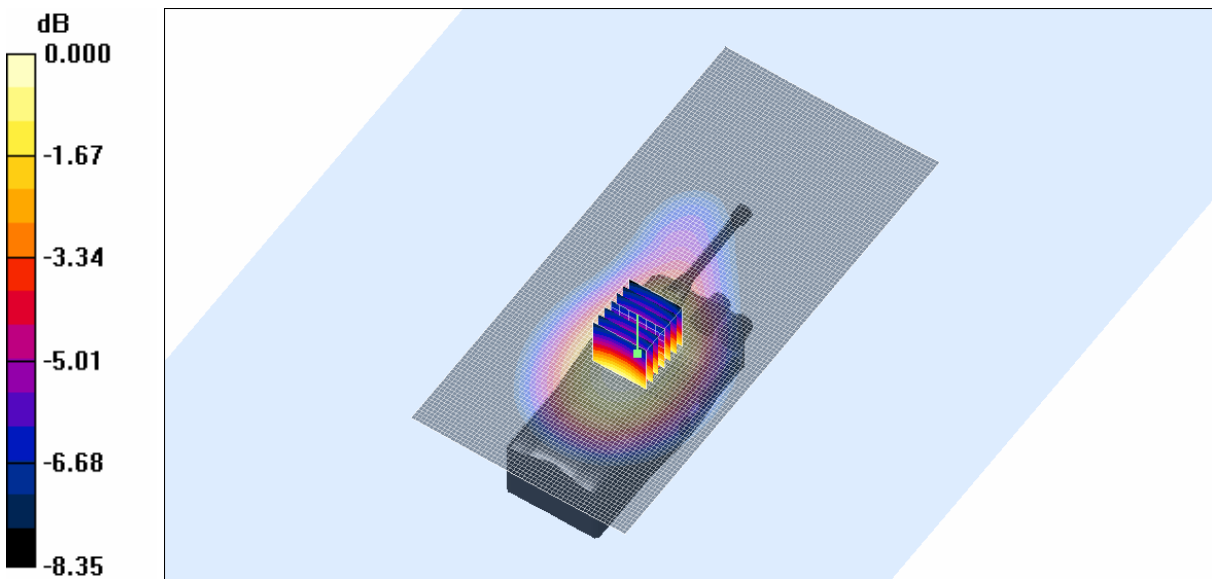
**Channel 1 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 40.6 V/m; Power Drift = -0.466 dB

Peak SAR (extrapolated) = 9.45 W/kg

**SAR(1 g) = 7.21 mW/g; SAR(10 g) = 5.3 mW/g**

Maximum value of SAR (measured) = 7.60 mW/g



0 dB = 7.60mW/g

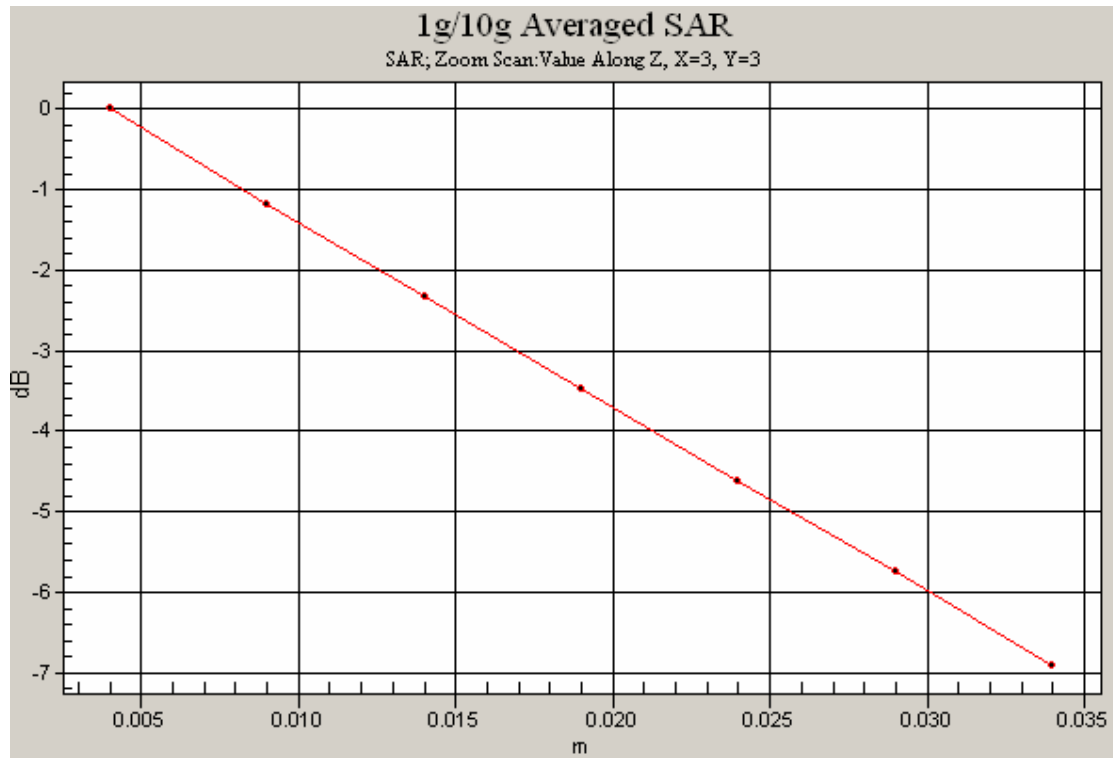
**SAR MEASUREMENT PLOT 7**

Ambient Temperature  
Liquid Temperature  
Humidity

19.2 Degrees Celsius  
19.0 Degrees Celsius  
61.0 %



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Test Date: 06 January 2009

File Name: 840 MHz Belt Clip 0.25 Wave Antenna (DAE359 Probe 3563) 06-01-09.da4

DUT: Tait Handheld Transceiver; Type: TPCK6A; Serial: 25071823

\* Communication System: CW 840 MHz; Frequency: 835 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $f = 836$  MHz;  $\sigma = 0.982$  mho/m;  $\epsilon_r = 53.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE3 Sn359; Probe: EX3DV4 - SN3563; ConvF(8.38, 8.38, 8.38)

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

**Channel 2 Test/Area Scan (61x131x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 6.96 mW/g

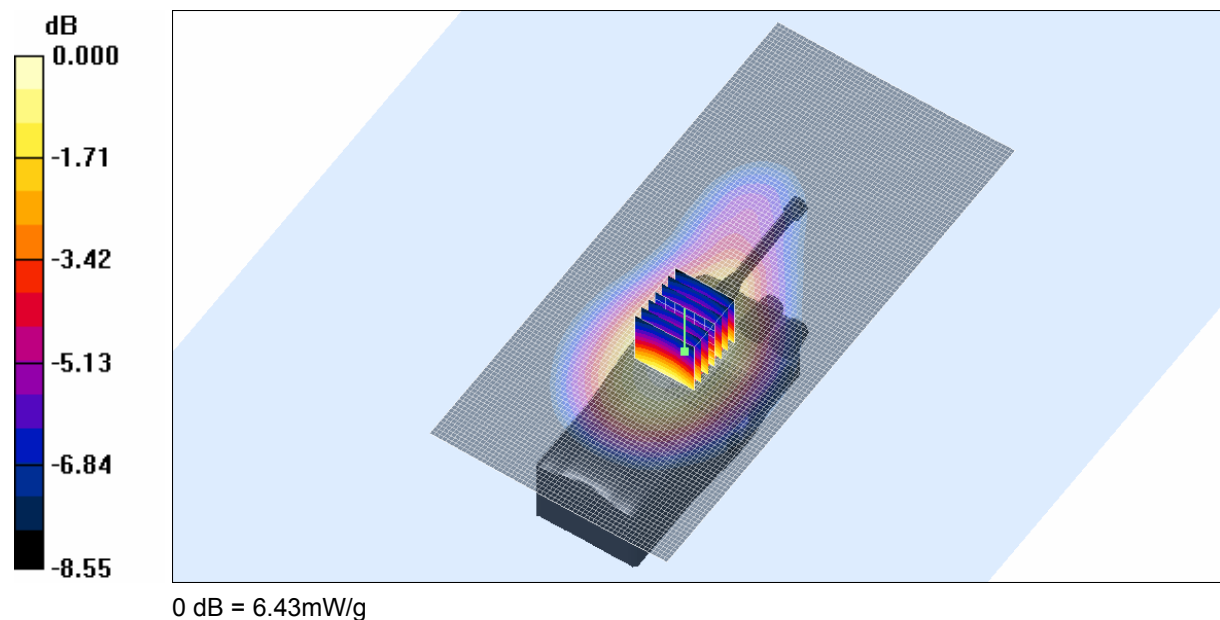
**Channel 2 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 43.2 V/m; Power Drift = -0.297 dB

Peak SAR (extrapolated) = 8.04 W/kg

**SAR(1 g) = 6.07 mW/g; SAR(10 g) = 4.43 mW/g**

Maximum value of SAR (measured) = 6.43 mW/g



**SAR MEASUREMENT PLOT 8**

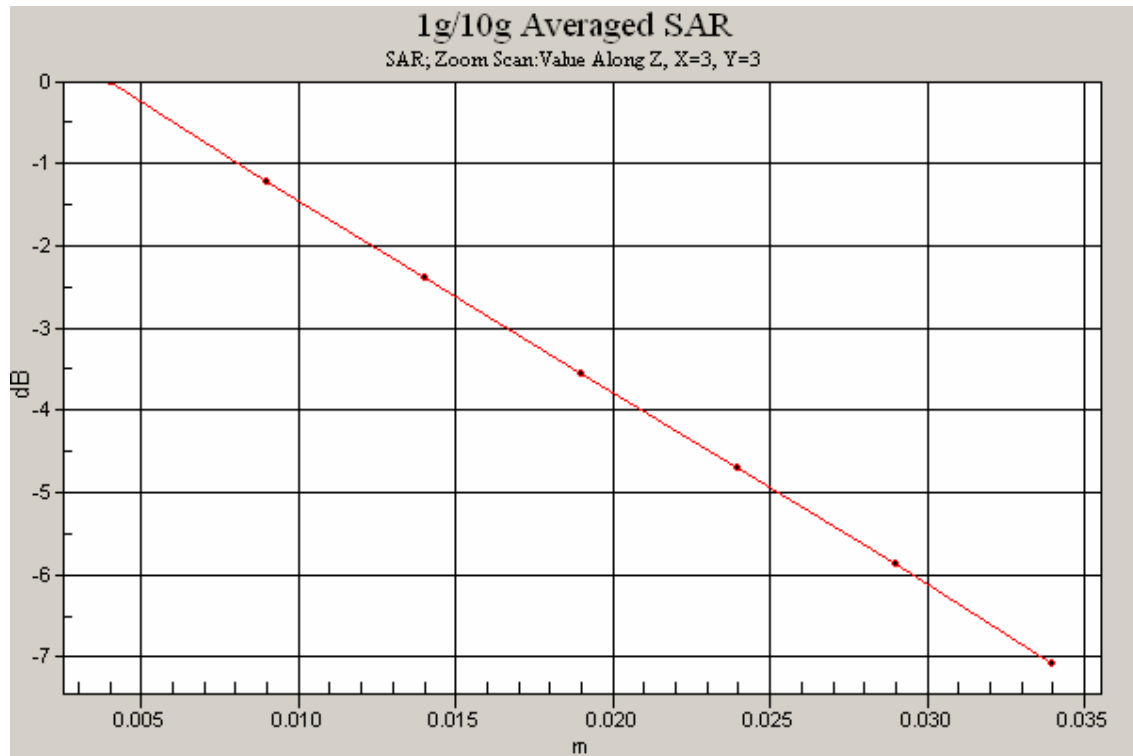
Ambient Temperature  
Liquid Temperature  
Humidity

19.5 Degrees Celsius  
19.3 Degrees Celsius  
63.0 %



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Test Date: 07 January 2009

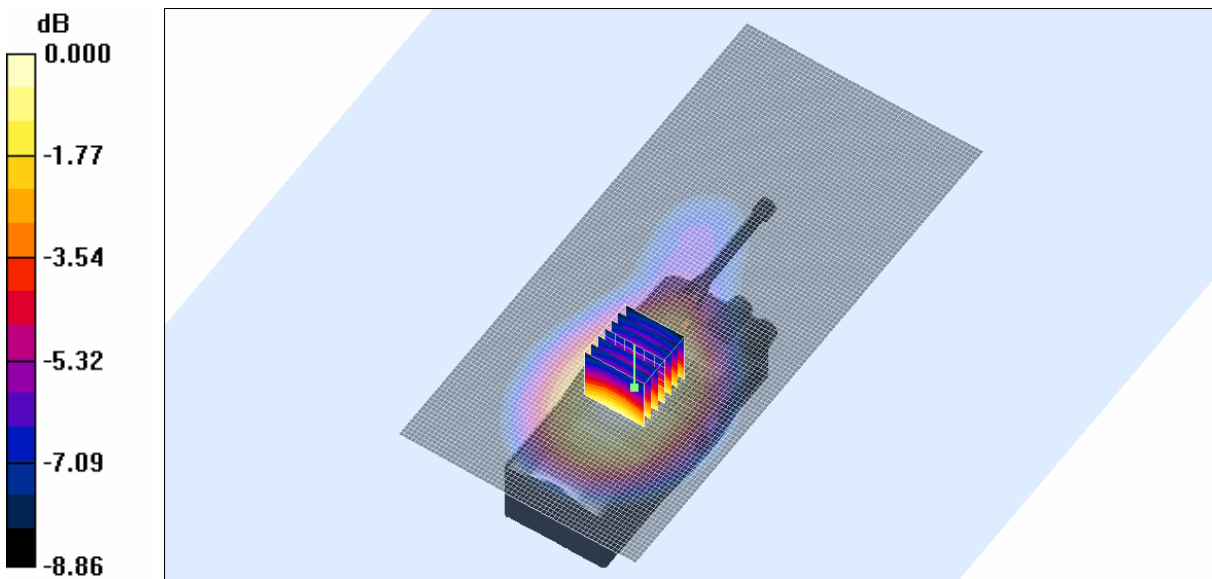
File Name: 840 MHz Belt Clip 0.25 Wave Antenna (DAE359 Probe 3563) 07-01-09.da4

DUT: Tait Handheld Transceiver; Type: TPCK6A; Serial: 25071823

- \* Communication System: CW 840 MHz; Frequency: 870 MHz; Duty Cycle: 1:1
- \* Medium parameters used:  $f = 868 \text{ MHz}$ ;  $\sigma = 1.01 \text{ mho/m}$ ;  $\epsilon_r = 52.9$ ;  $\rho = 1000 \text{ kg/m}^3$
- Electronics: DAE3 Sn359; Probe: EX3DV4 - SN3563; ConvF(8.38, 8.38, 8.38)
- Phantom: Flat Phantom 9.1; Serial: P 9.1; Phantom section: Flat 2.2 Section

**Channel 3/Area Scan (61x131x1):** Measurement grid:  $dx=20\text{mm}$ ,  $dy=20\text{mm}$   
Maximum value of SAR (interpolated) =  $6.21 \text{ mW/g}$

**Channel 3/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  
 $dz=5\text{mm}$   
Reference Value =  $29.3 \text{ V/m}$ ; Power Drift =  $-0.486 \text{ dB}$   
Peak SAR (extrapolated) =  $7.21 \text{ W/kg}$   
**SAR(1 g) =  $5.41 \text{ mW/g}$ ; SAR(10 g) =  $3.92 \text{ mW/g}$**   
Maximum value of SAR (measured) =  $5.72 \text{ mW/g}$



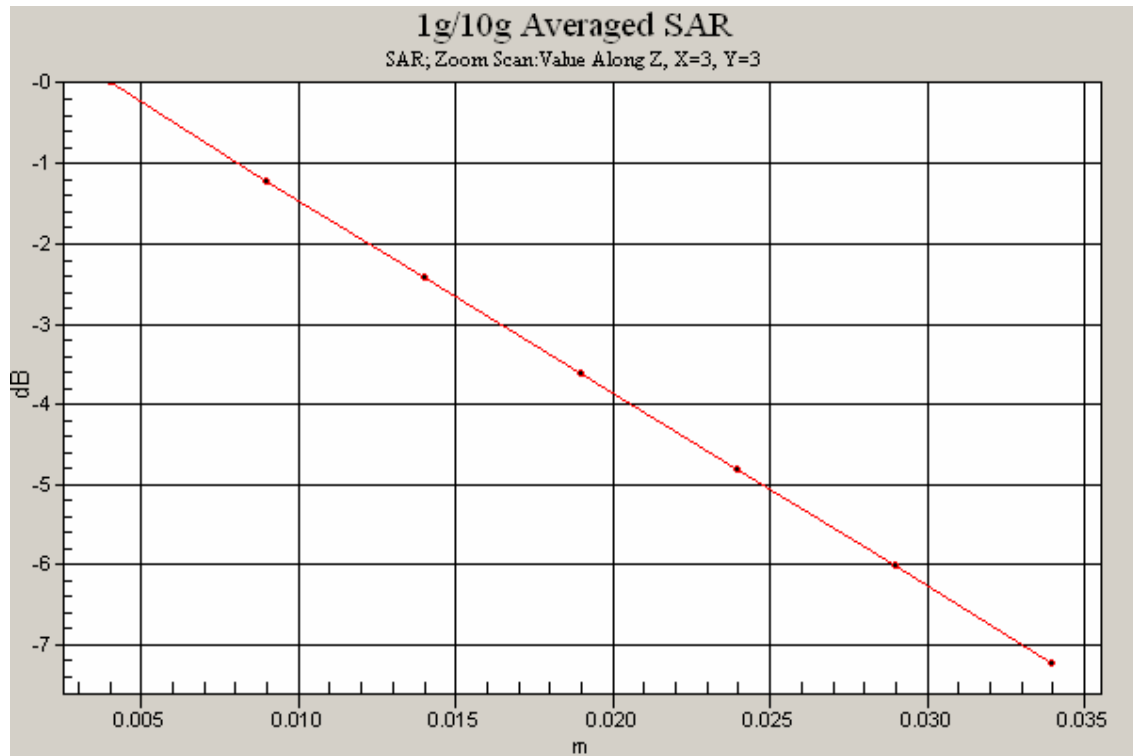
**SAR MEASUREMENT PLOT 9**

Ambient Temperature  
Liquid Temperature  
Humidity

19.2 Degrees Celsius  
19.0 Degrees Celsius  
61.0 %



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Test Date: 07 January 2009

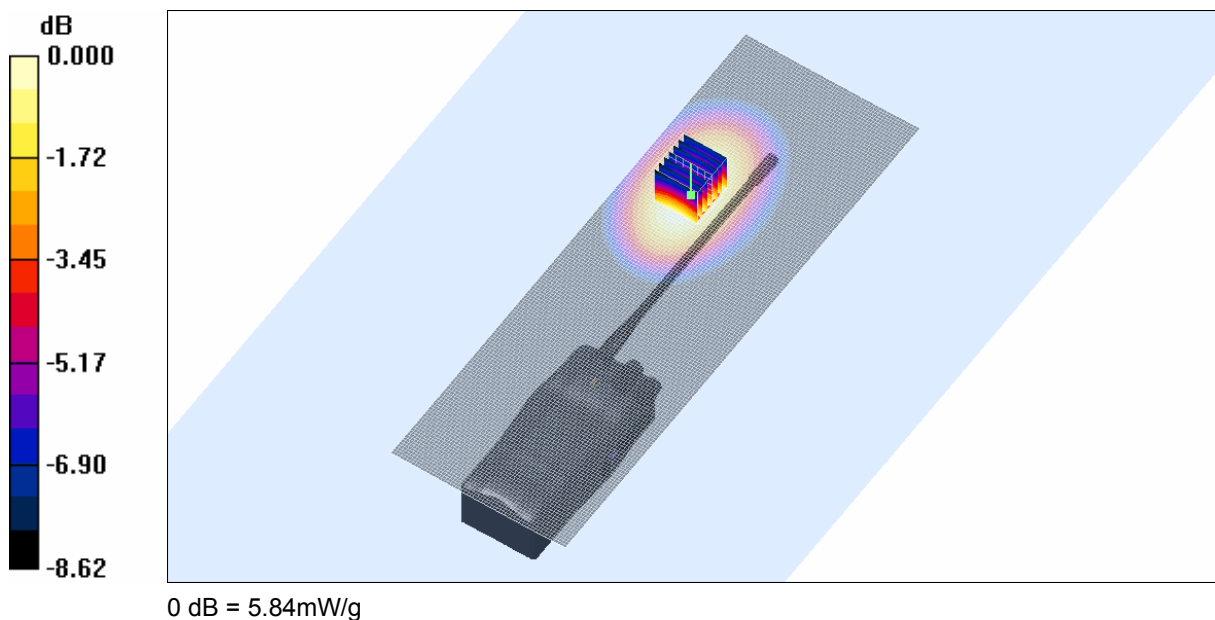
File Name: 840 MHz Belt Clip 0.5 Wave Antenna (DAE359 Probe 3563) 07-01-09.da4

DUT: Tait Handheld Transceiver; Type: TPCK6A; Serial: 25071823

- \* Communication System: CW 840 MHz; Frequency: 806 MHz; Duty Cycle: 1:1
- \* Medium parameters used:  $f = 804$  MHz;  $\sigma = 0.948$  mho/m;  $\epsilon_r = 53.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>
- Electronics: DAE3 Sn359; Probe: EX3DV4 - SN3563; ConvF(8.38, 8.38, 8.38)
- Phantom: Flat Phantom 9.1; Serial: P 9.1; Phantom section: Flat 2.2 Section

**Channel 1 Test/Area Scan (61x181x1):** Measurement grid: dx=20mm, dy=20mm  
Maximum value of SAR (interpolated) = 6.16 mW/g

**Channel 1 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 78.5 V/m; Power Drift = -0.339 dB  
Peak SAR (extrapolated) = 7.39 W/kg  
**SAR(1 g) = 5.51 mW/g; SAR(10 g) = 3.97 mW/g**  
Maximum value of SAR (measured) = 5.84 mW/g



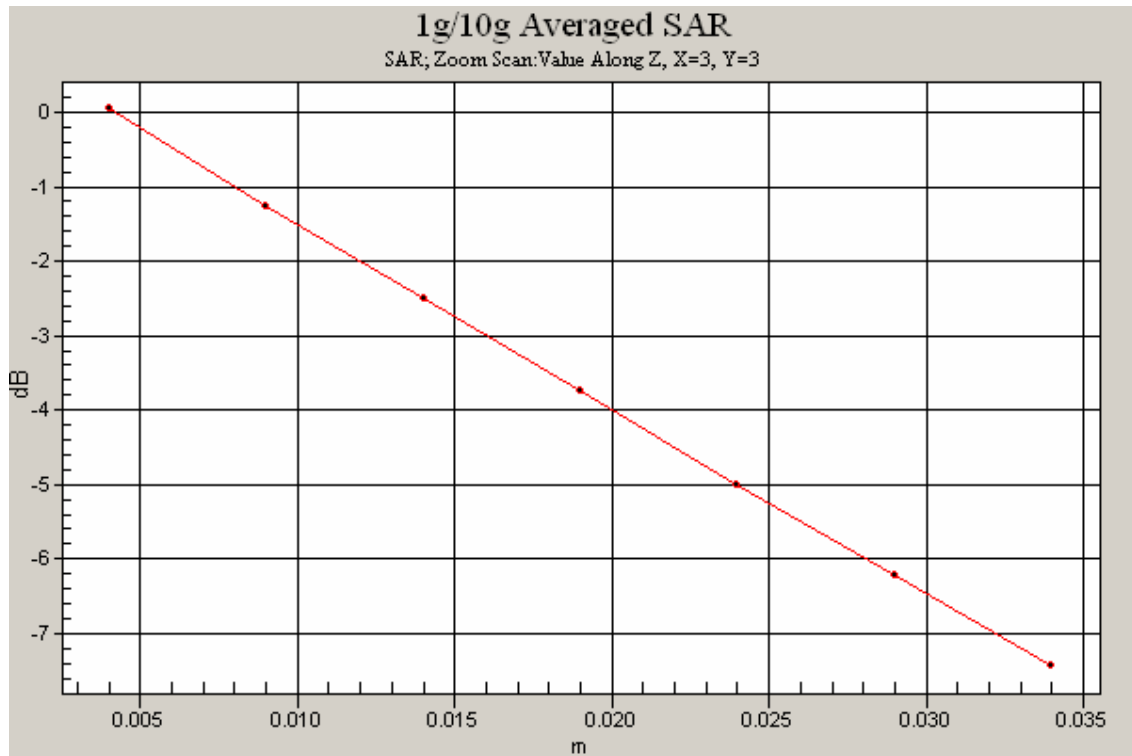
**SAR MEASUREMENT PLOT 10**

Ambient Temperature  
Liquid Temperature  
Humidity

19.2 Degrees Celsius  
19.0 Degrees Celsius  
61.0 %



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Test Date: 06 January 2009

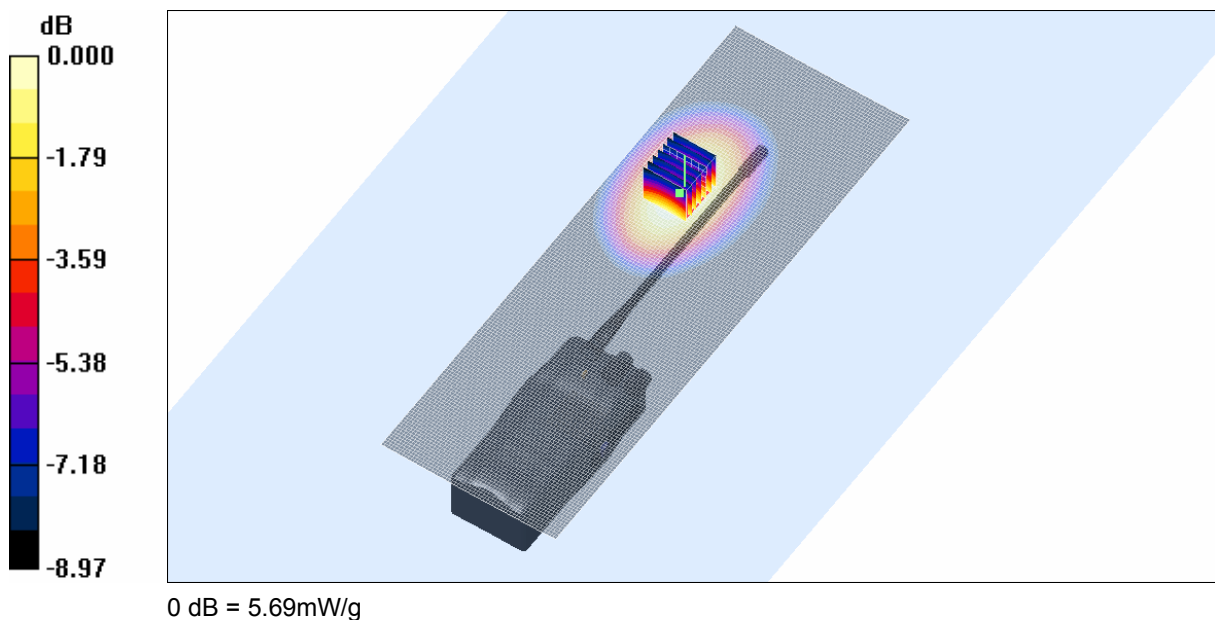
File Name: 840 MHz Belt Clip 0.5 Wave Antenna (DAE359 Probe 3563) 06-01-09.da4

DUT: Tait Handheld Transceiver; Type: TPCK6A; Serial: 25071823

- \* Communication System: CW 840 MHz; Frequency: 835 MHz; Duty Cycle: 1:1
- \* Medium parameters used:  $f = 836$  MHz;  $\sigma = 0.982$  mho/m;  $\epsilon_r = 53.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>
- Electronics: DAE3 Sn359; Probe: EX3DV4 - SN3563; ConvF(8.38, 8.38, 8.38)
- Phantom: Flat Phantom 9.1; Serial: P 9.1; Phantom section: Flat 2.2 Section

**Channel 2 Test/Area Scan (61x181x1):** Measurement grid: dx=20mm, dy=20mm  
Maximum value of SAR (interpolated) = 5.89 mW/g

**Channel 2 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 74.9 V/m; Power Drift = -0.212 dB  
Peak SAR (extrapolated) = 7.30 W/kg  
**SAR(1 g) = 5.38 mW/g; SAR(10 g) = 3.83 mW/g**  
Maximum value of SAR (measured) = 5.69 mW/g



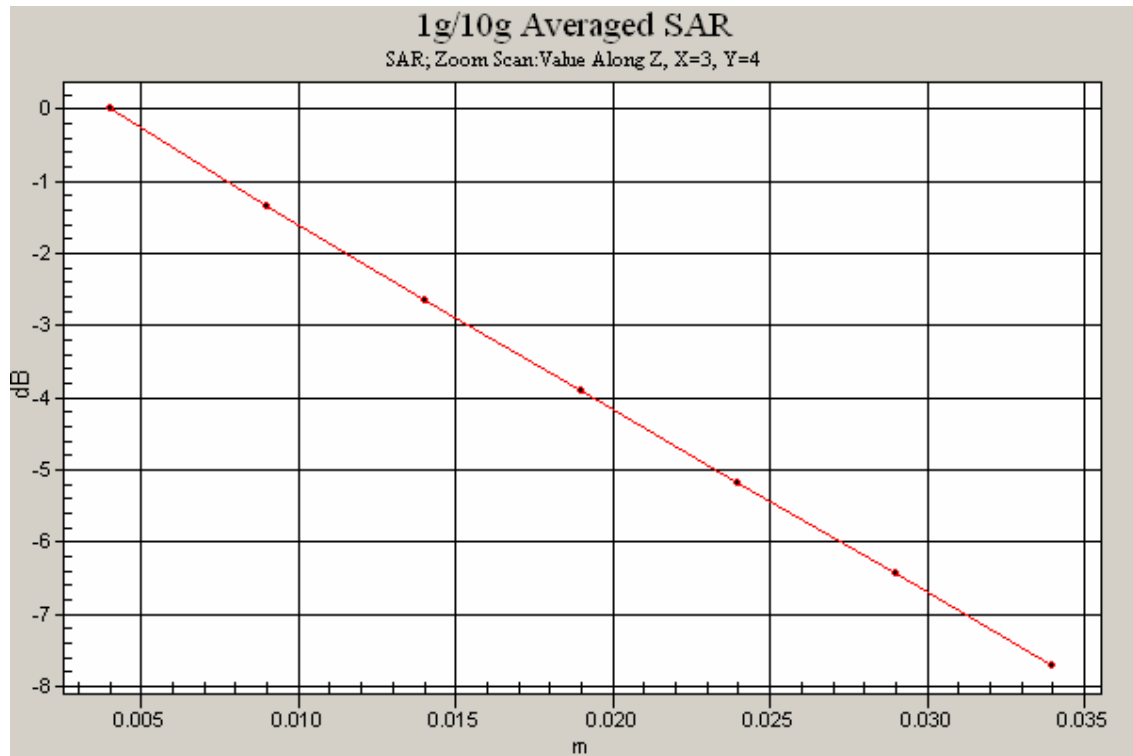
**SAR MEASUREMENT PLOT 11**

Ambient Temperature  
Liquid Temperature  
Humidity

19.5 Degrees Celsius  
19.3 Degrees Celsius  
63.0 %



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Test Date: 07 January 2009

File Name: 840 MHz Belt Clip 0.5 Wave Antenna (DAE359 Probe 3563) 07-01-09.da4

DUT: Tait Handheld Transceiver; Type: TPCK6A; Serial: 25071823

\* Communication System: CW 840 MHz; Frequency: 870 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $f = 868 \text{ MHz}$ ;  $\sigma = 1.01 \text{ mho/m}$ ;  $\epsilon_r = 52.9$ ;  $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn359; Probe: EX3DV4 - SN3563; ConvF(8.38, 8.38, 8.38)

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

**Channel 3/Area Scan (61x181x1):** Measurement grid:  $dx=20\text{mm}$ ,  $dy=20\text{mm}$

Maximum value of SAR (interpolated) =  $5.64 \text{ mW/g}$

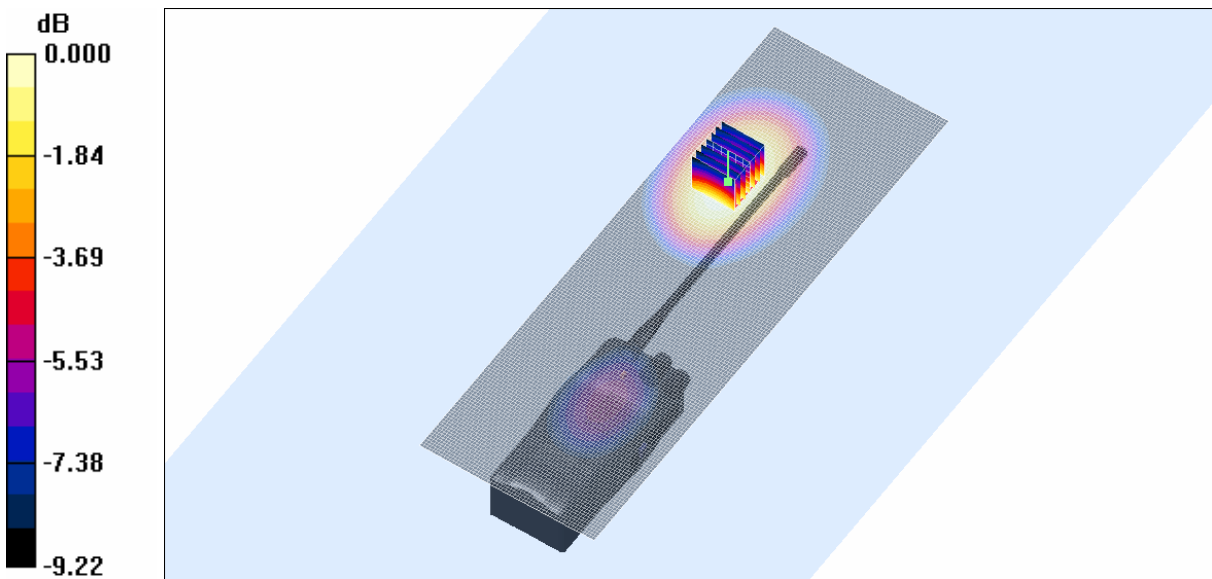
**Channel 3/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  
 $dz=5\text{mm}$

Reference Value =  $69.5 \text{ V/m}$ ; Power Drift =  $-0.001 \text{ dB}$

Peak SAR (extrapolated) =  $6.83 \text{ W/kg}$

**SAR(1 g) =  $5.02 \text{ mW/g}$ ; SAR(10 g) =  $3.57 \text{ mW/g}$**

Maximum value of SAR (measured) =  $5.32 \text{ mW/g}$



**SAR MEASUREMENT PLOT 12**

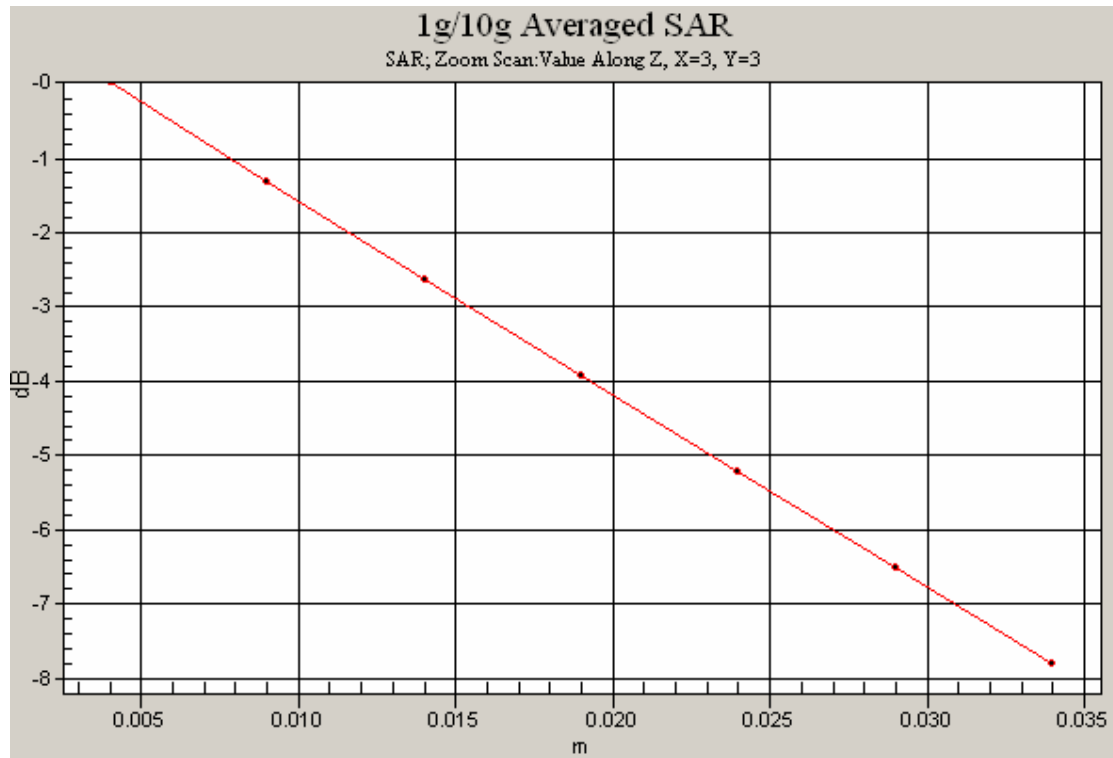
Ambient Temperature  
Liquid Temperature  
Humidity

19.2 Degrees Celsius  
19.0 Degrees Celsius  
61.0 %



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Test Date: 07 January 2009

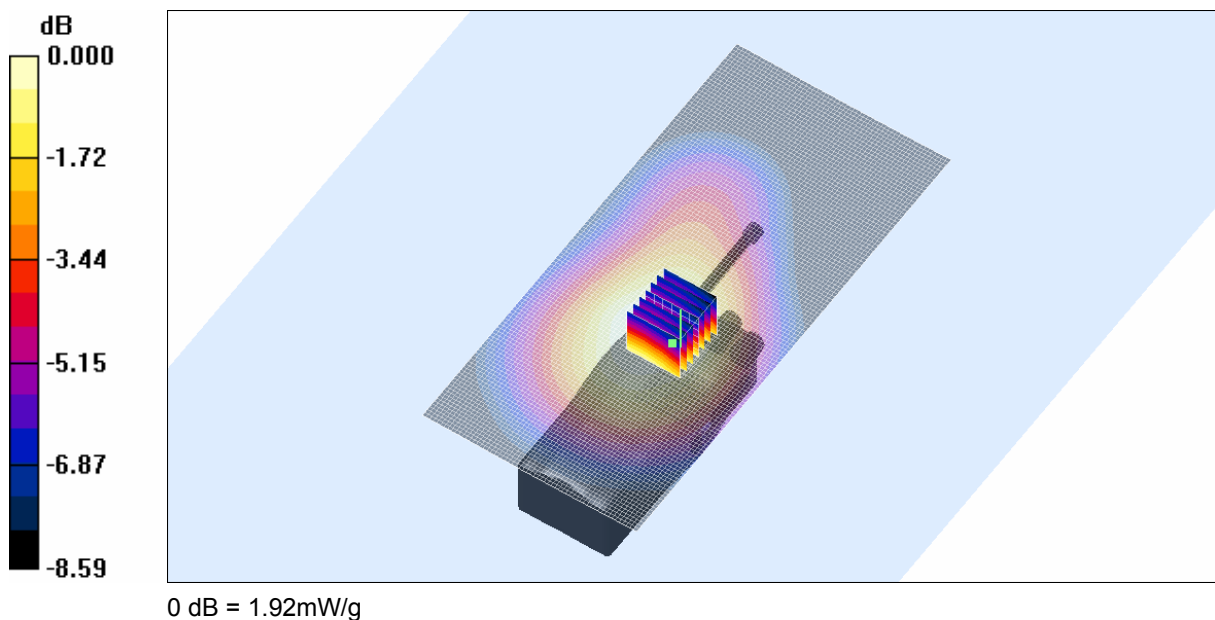
File Name: 840 MHz Leather Pouch 0.25 Wave Antenna (DAE359 Probe 3563) 07-01-09.da4

DUT: Tait Handheld Transceiver; Type: TPCK6A; Serial: 25071823

- \* Communication System: CW 840 MHz; Frequency: 835 MHz; Duty Cycle: 1:1
- \* Medium parameters used:  $f = 836$  MHz;  $\sigma = 0.979$  mho/m;  $\epsilon_r = 53.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>
- Electronics: DAE3 Sn359; Probe: EX3DV4 - SN3563; ConvF(8.38, 8.38, 8.38)
- Phantom: Flat Phantom 9.1; Serial: P 9.1; Phantom section: Flat 2.2 Section

**Channel 2 Test/Area Scan (61x131x1):** Measurement grid: dx=20mm, dy=20mm  
Maximum value of SAR (interpolated) = 2.11 mW/g

**Channel 2 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 28.3 V/m; Power Drift = -0.212 dB  
Peak SAR (extrapolated) = 2.67 W/kg  
**SAR(1 g) = 1.81 mW/g; SAR(10 g) = 1.34 mW/g**  
Maximum value of SAR (measured) = 1.92 mW/g

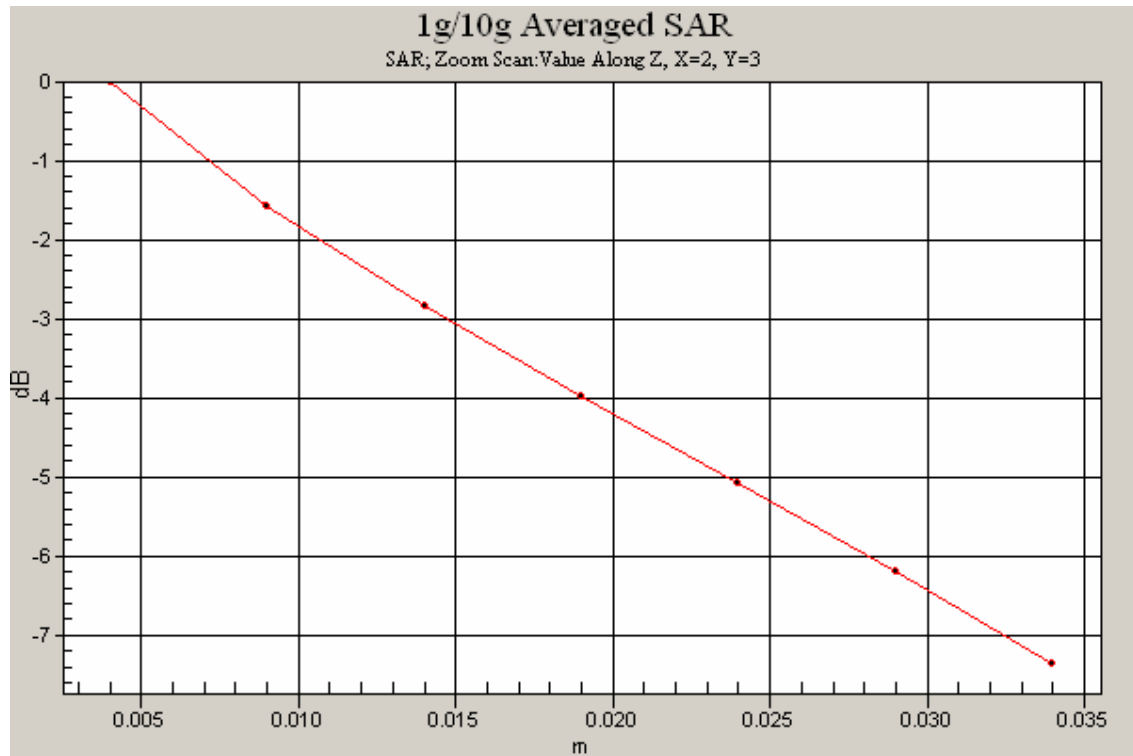


**SAR MEASUREMENT PLOT 13**

Ambient Temperature  
Liquid Temperature  
Humidity

19.2 Degrees Celsius  
19.0 Degrees Celsius  
61.0 %





Test Date: 06 January 2009

File Name: 840 MHz Leather Pouch 0.5 Wave Antenna (DAE359 Probe 3563) 06-01-09.da4

DUT: Tait Handheld Transceiver; Type: TPCK6A; Serial: 25071823

\* Communication System: CW 840 MHz; Frequency: 835 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $f = 836$  MHz;  $\sigma = 0.982$  mho/m;  $\epsilon_r = 53.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE3 Sn359; Probe: EX3DV4 - SN3563; ConvF(8.38, 8.38, 8.38)

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

**Channel 2 Test/Area Scan (61x181x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 1.66 mW/g

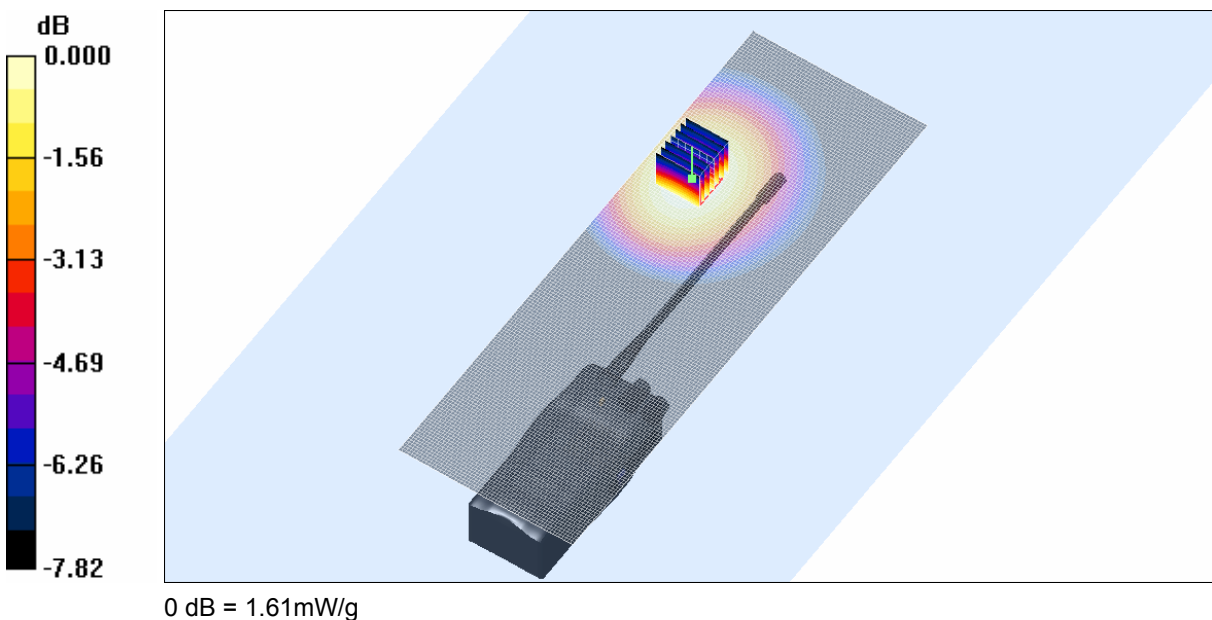
**Channel 2 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 38.6 V/m; Power Drift = 0.243 dB

Peak SAR (extrapolated) = 2.00 W/kg

**SAR(1 g) = 1.53 mW/g; SAR(10 g) = 1.14 mW/g**

Maximum value of SAR (measured) = 1.61 mW/g



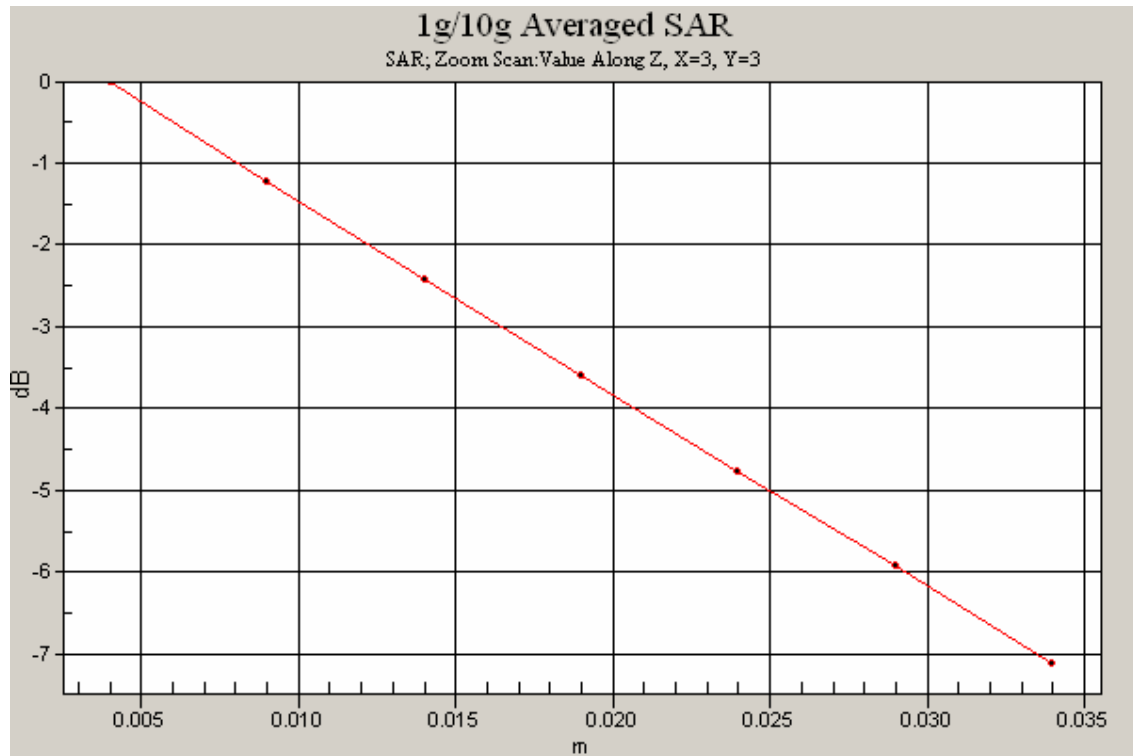
**SAR MEASUREMENT PLOT 14**

Ambient Temperature  
Liquid Temperature  
Humidity

19.5 Degrees Celsius  
19.3 Degrees Celsius  
63.0 %



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Test Date: 07 January 2009

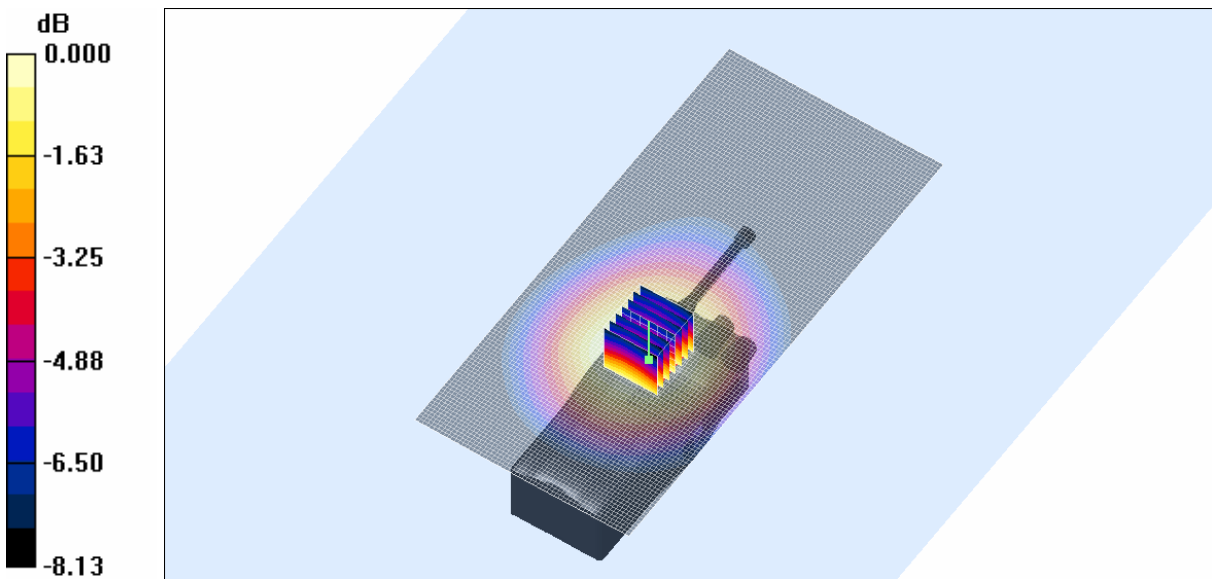
File Name: 840 MHz Nylon Pouch 0.25 Wave Antenna (DAE359 Probe 3563) 07-01-09.da4

DUT: Tait Handheld Transceiver; Type: TPCK6A; Serial: 25071823

- \* Communication System: CW 840 MHz; Frequency: 835 MHz; Duty Cycle: 1:1
- \* Medium parameters used:  $f = 836$  MHz;  $\sigma = 0.979$  mho/m;  $\epsilon_r = 53.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>
- Electronics: DAE3 Sn359; Probe: EX3DV4 - SN3563; ConvF(8.38, 8.38, 8.38)
- Phantom: Flat Phantom 9.1; Serial: P 9.1; Phantom section: Flat 2.2 Section

**Channel 2 Test/Area Scan (61x131x1):** Measurement grid: dx=20mm, dy=20mm  
Maximum value of SAR (interpolated) = 2.44 mW/g

**Channel 2 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 18.3 V/m; Power Drift = 0.143 dB  
Peak SAR (extrapolated) = 2.72 W/kg  
**SAR(1 g) = 2.1 mW/g; SAR(10 g) = 1.56 mW/g**  
Maximum value of SAR (measured) = 2.20 mW/g



0 dB = 2.20mW/g

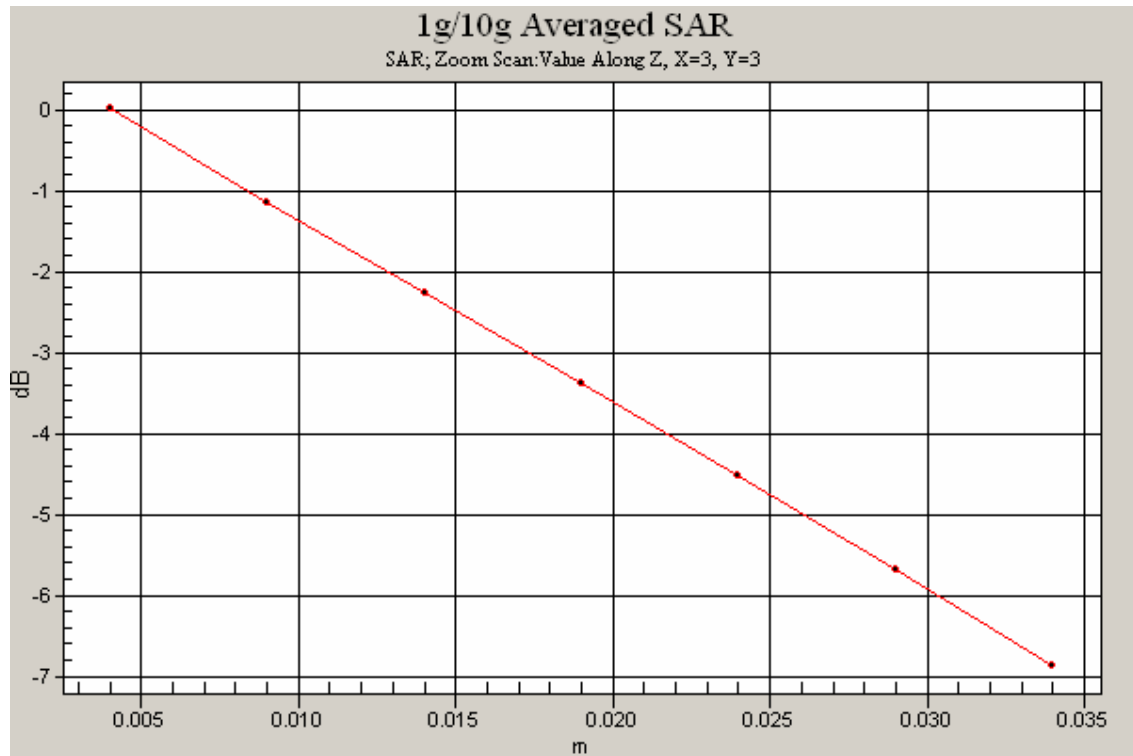
**SAR MEASUREMENT PLOT 15**

Ambient Temperature  
Liquid Temperature  
Humidity

19.2 Degrees Celsius  
19.0 Degrees Celsius  
61.0 %



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Test Date: 06 January 2009

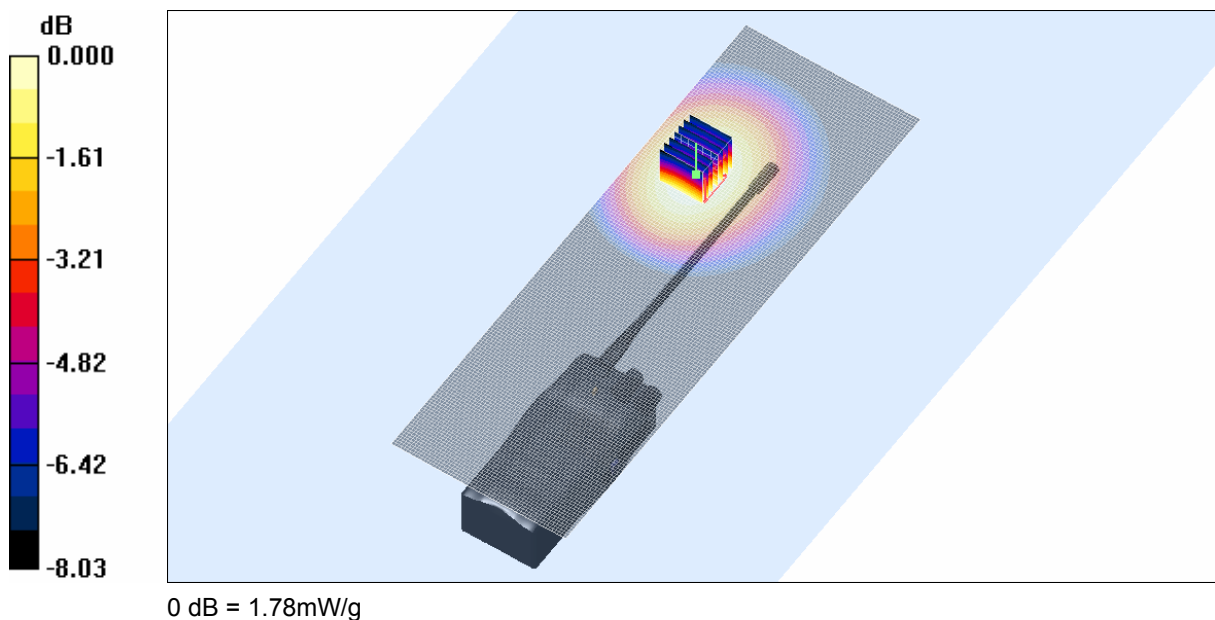
File Name: 840 MHz Nylon Pouch 0.5 Wave Antenna (DAE359 Probe 3563) 06-01-09.da4

DUT: Tait Handheld Transceiver; Type: TPCK6A; Serial: 25071823

- \* Communication System: CW 840 MHz; Frequency: 835 MHz; Duty Cycle: 1:1
- \* Medium parameters used:  $f = 836$  MHz;  $\sigma = 0.982$  mho/m;  $\epsilon_r = 53.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>
- Electronics: DAE3 Sn359; Probe: EX3DV4 - SN3563; ConvF(8.38, 8.38, 8.38)
- Phantom: Flat Phantom 9.1; Serial: P 9.1; Phantom section: Flat 2.2 Section

**Channel 2 Test/Area Scan (61x181x1):** Measurement grid: dx=20mm, dy=20mm  
Maximum value of SAR (interpolated) = 1.84 mW/g

**Channel 2 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 40.0 V/m; Power Drift = 0.079 dB  
Peak SAR (extrapolated) = 2.22 W/kg  
**SAR(1 g) = 1.69 mW/g; SAR(10 g) = 1.25 mW/g**  
Maximum value of SAR (measured) = 1.78 mW/g



**SAR MEASUREMENT PLOT 16**

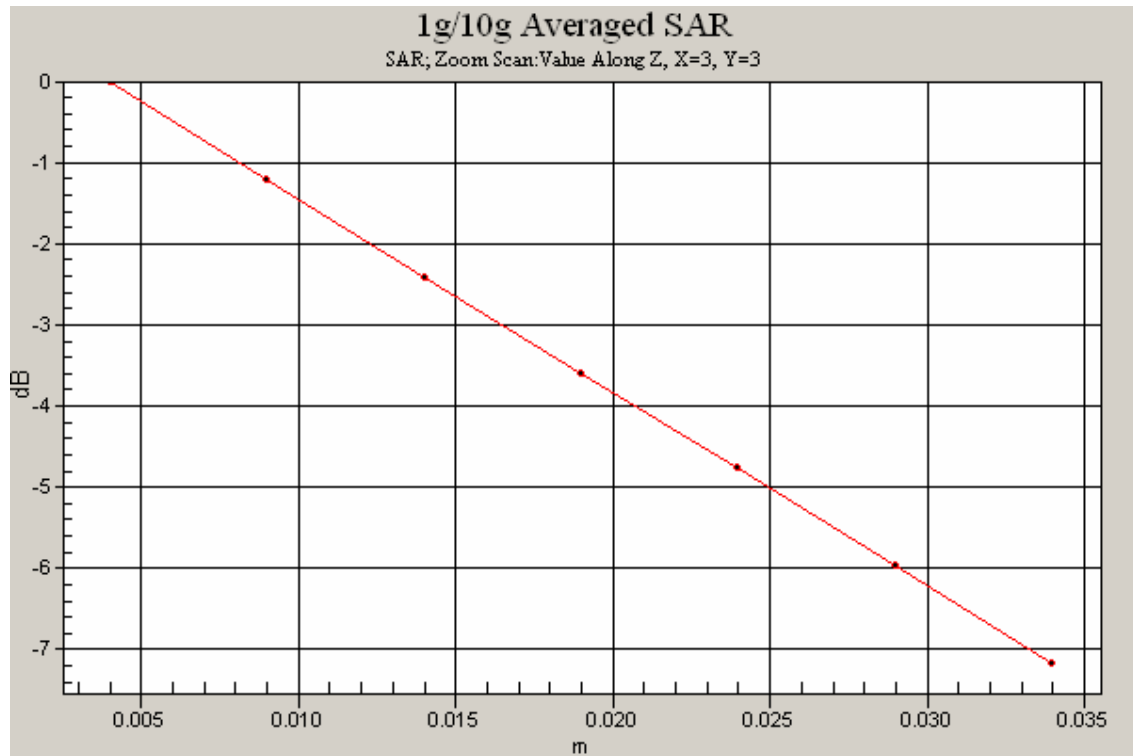
Ambient Temperature  
Liquid Temperature  
Humidity

19.5 Degrees Celsius  
19.3 Degrees Celsius  
63.0 %



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Test Date: 18 January 2009

File Name: 840 MHz Belt Clip 0.25 Wave Antenna No Key (DAE442 Probe 1380) 18-01-09.da4

DUT: Tait Handheld Transceiver; Type: TPCK6A; Serial: 25071832

\* Communication System: CW 840 MHz; Frequency: 806 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $f = 804$  MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 55$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(5.9, 5.9, 5.9)

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

**Channel 1 Test/Area Scan (61x131x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 8.06 mW/g

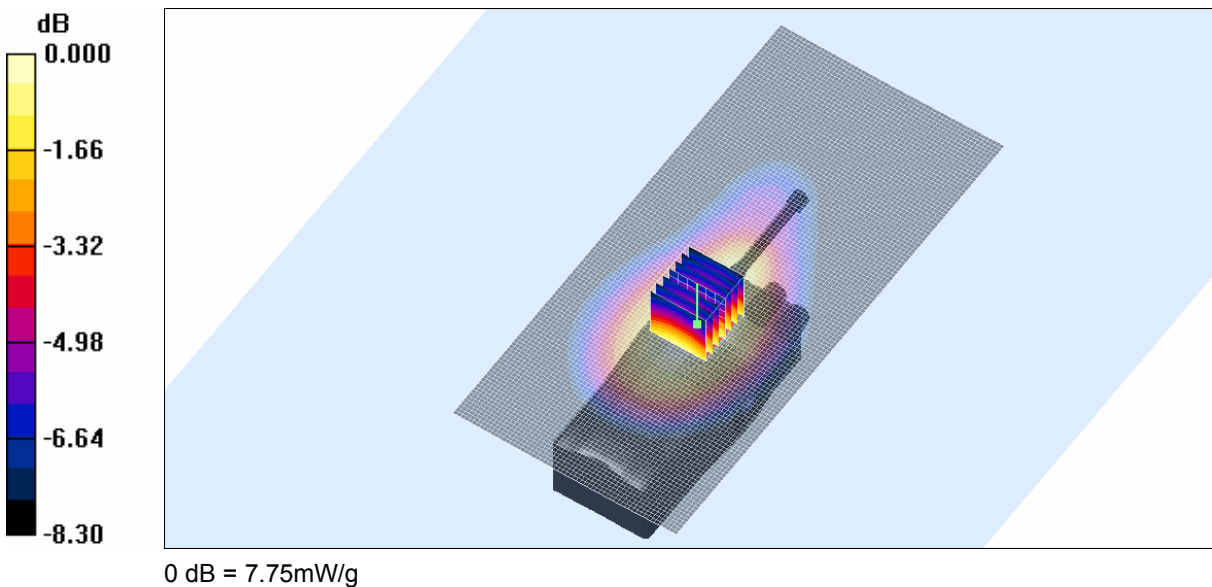
**Channel 1 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 46.0 V/m; Power Drift = -0.464 dB

Peak SAR (extrapolated) = 9.14 W/kg

**SAR(1 g) = 7.31 mW/g; SAR(10 g) = 5.41 mW/g**

Maximum value of SAR (measured) = 7.75 mW/g



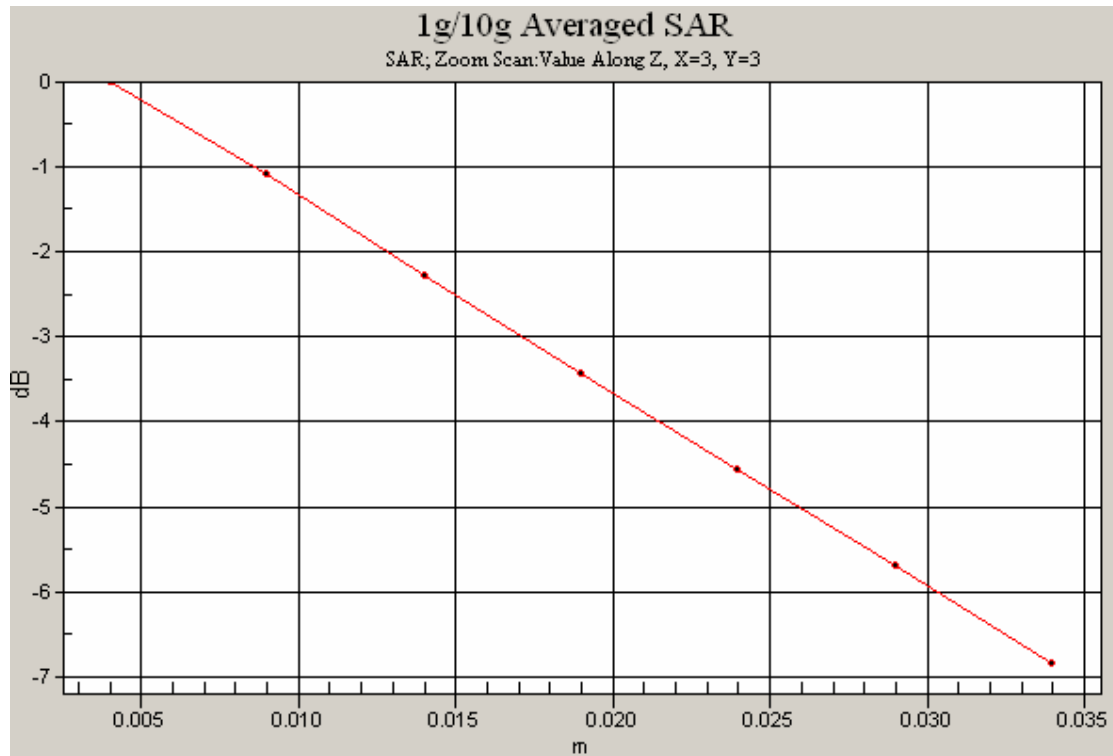
**SAR MEASUREMENT PLOT 17**

Ambient Temperature  
Liquid Temperature  
Humidity

19.7 Degrees Celsius  
19.5 Degrees Celsius  
51.0 %



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Test Date: 18 January 2009

File Name: 840 MHz Belt Clip 0.25 Wave Antenna 4 Key (DAE442 Probe 1380) 18-01-09.da4

DUT: Tait Handheld Transceiver; Type: TPCK6A; Serial: 25071819

\* Communication System: CW 840 MHz; Frequency: 806 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $f = 804$  MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 55$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(5.9, 5.9, 5.9)

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

**Channel 1 Test/Area Scan (61x131x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 8.24 mW/g

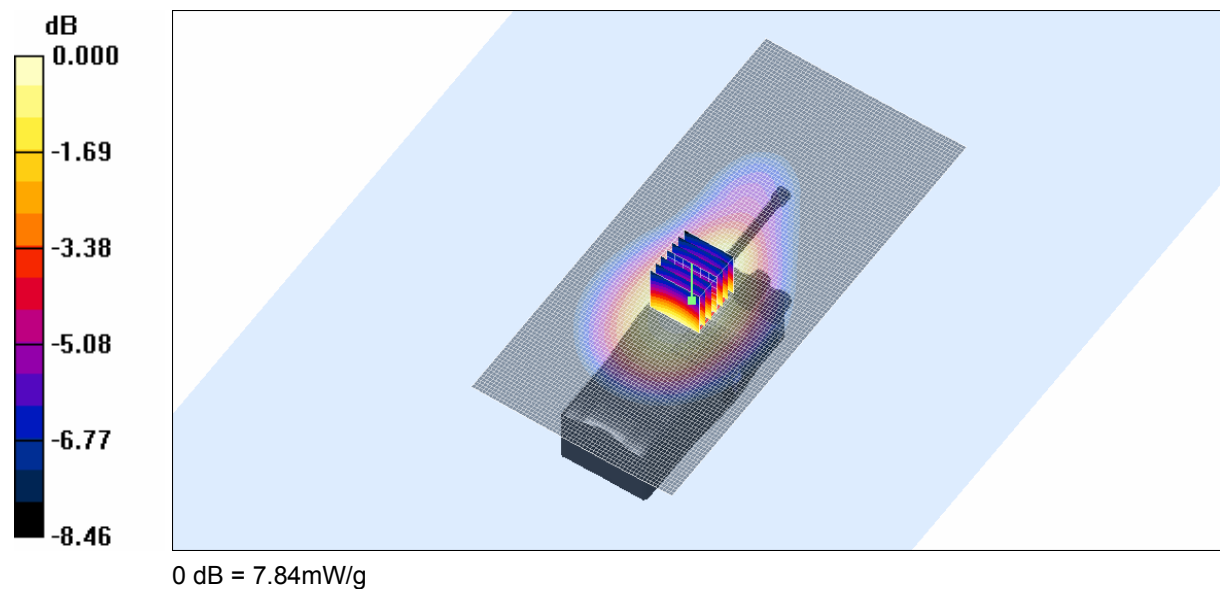
**Channel 1 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 48.7 V/m; Power Drift = -0.251 dB

Peak SAR (extrapolated) = 9.25 W/kg

**SAR(1 g) = 7.41 mW/g; SAR(10 g) = 5.49 mW/g**

Maximum value of SAR (measured) = 7.84 mW/g



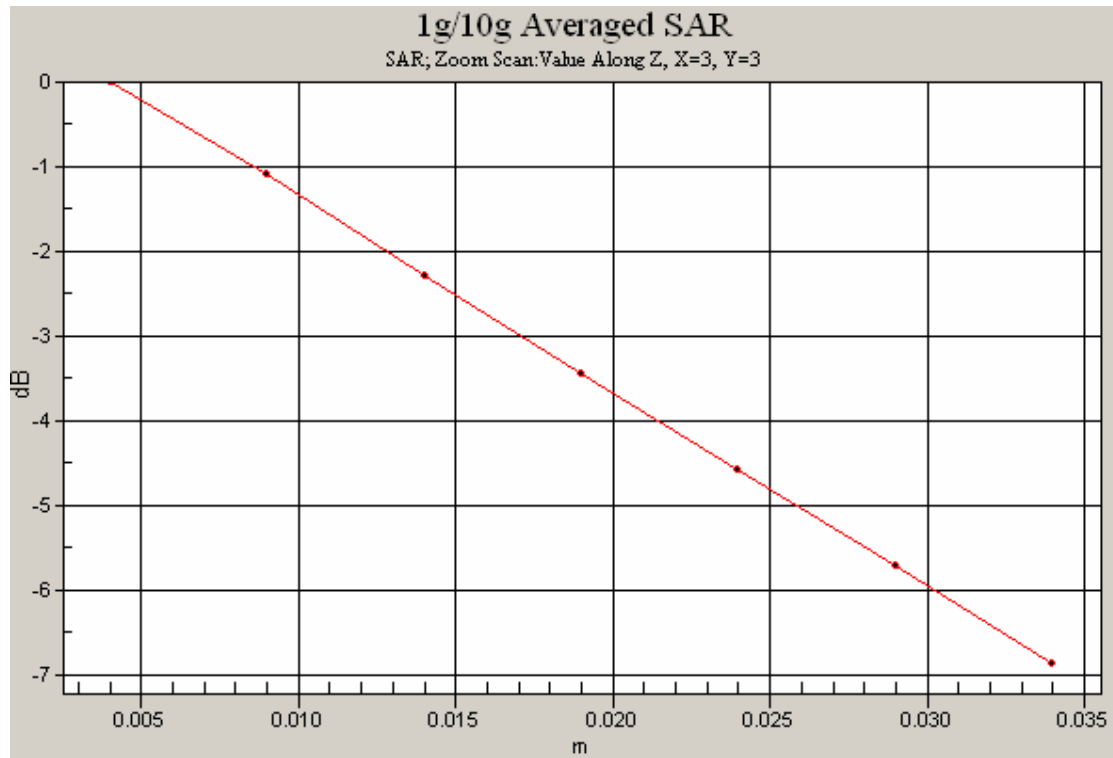
**SAR MEASUREMENT PLOT 18**

Ambient Temperature  
Liquid Temperature  
Humidity

19.7 Degrees Celsius  
19.5 Degrees Celsius  
51.0 %



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Test Date: 06 January 2009

File Name: Validation 900 MHz ( DAE359 Probe 3563) 06-01-09.da4

DUT: **Dipole 900 MHz; Type: DV900; Serial: 047**

\* Communication System: CW 900 MHz; Frequency: 900 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $f = 900 \text{ MHz}$ ;  $\sigma = 0.961 \text{ mho/m}$ ;  $\epsilon_r = 42$ ;  $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn359; Probe: EX3DV4 - SN3563; ConvF(8.3, 8.3, 8.3)

- Phantom: SAM 12; Serial: 1060; Phantom section: Flat Section

**Channel 1 Test/Area Scan (51x51x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (interpolated) =  $2.90 \text{ mW/g}$

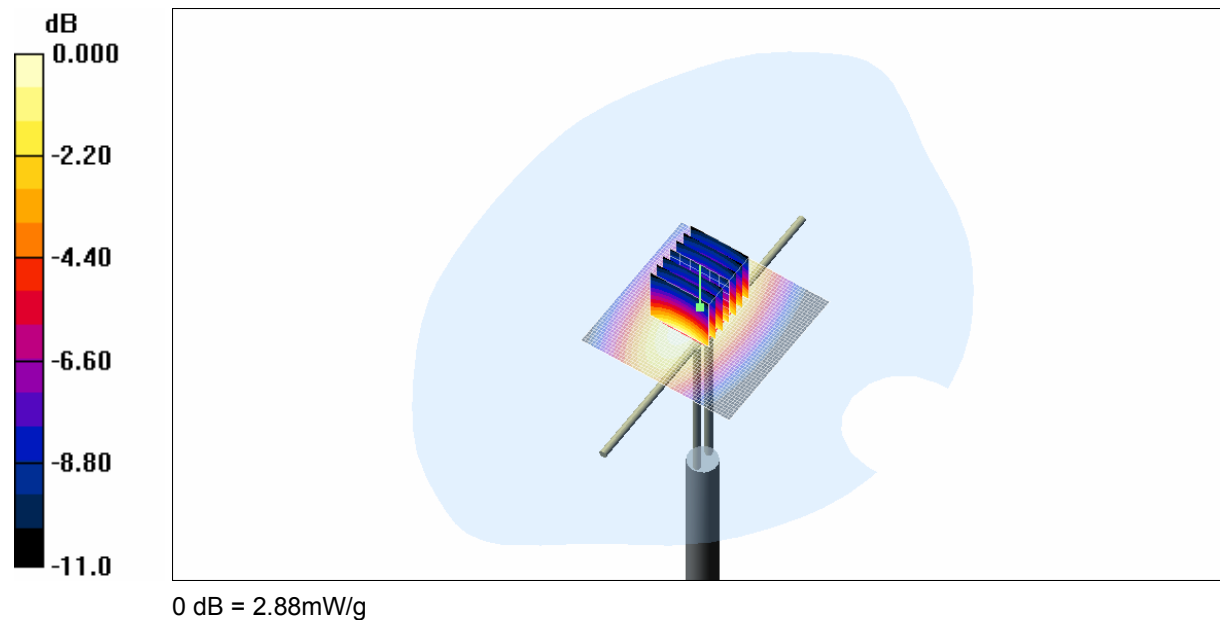
**Channel 1 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $54.9 \text{ V/m}$ ; Power Drift =  $-0.035 \text{ dB}$

Peak SAR (extrapolated) =  $4.15 \text{ W/kg}$

**SAR(1 g) =  $2.68 \text{ mW/g}$ ; SAR(10 g) =  $1.71 \text{ mW/g}$**

Maximum value of SAR (measured) =  $2.88 \text{ mW/g}$



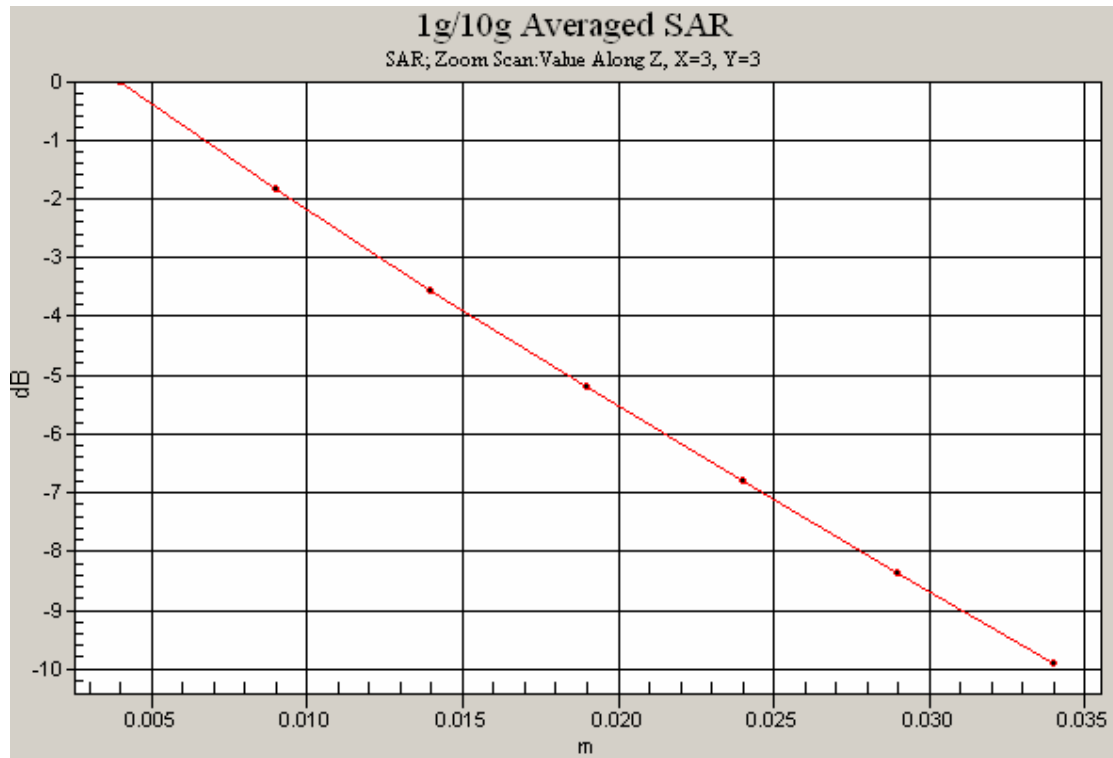
**SAR MEASUREMENT PLOT 19**

Ambient Temperature  
Liquid Temperature  
Humidity

19.5 Degrees Celsius  
19.3 Degrees Celsius  
63.0 %



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Test Date: 07 January 2009

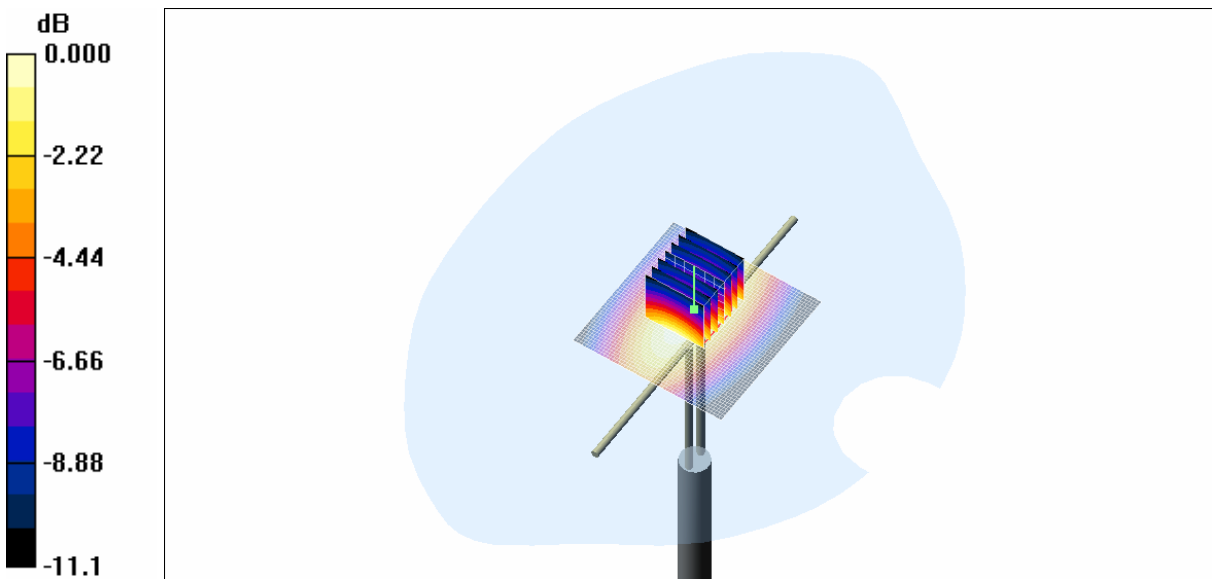
File Name: Validation 900 MHz ( DAE359 Probe 3563) 07-01-09.da4

DUT: Dipole 900 MHz; Type: DV900; Serial: 047

- \* Communication System: CW 900 MHz; Frequency: 900 MHz; Duty Cycle: 1:1
- \* Medium parameters used:  $f = 900 \text{ MHz}$ ;  $\sigma = 0.983 \text{ mho/m}$ ;  $\epsilon_r = 42.3$ ;  $\rho = 1000 \text{ kg/m}^3$
- Electronics: DAE3 Sn359; Probe: EX3DV4 - SN3563; ConvF(8.3, 8.3, 8.3)
- Phantom: SAM 12; Serial: 1060; Phantom section: Flat Section

**Channel 1 Test/Area Scan (51x51x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) =  $2.96 \text{ mW/g}$

**Channel 1 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  
 $dz=5\text{mm}$   
Reference Value =  $55.3 \text{ V/m}$ ; Power Drift =  $-0.023 \text{ dB}$   
Peak SAR (extrapolated) =  $4.27 \text{ W/kg}$   
**SAR(1 g) =  $2.76 \text{ mW/g}$ ; SAR(10 g) =  $1.76 \text{ mW/g}$**   
Maximum value of SAR (measured) =  $2.96 \text{ mW/g}$



**SAR MEASUREMENT PLOT 20**

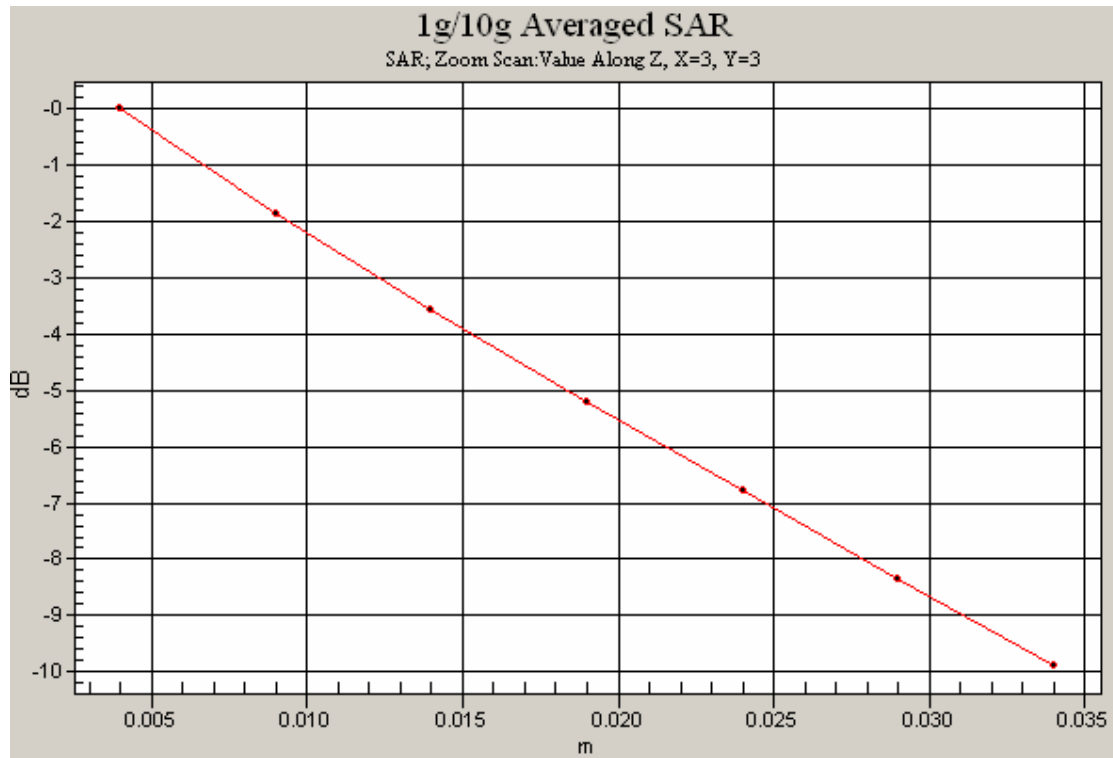
Ambient Temperature  
Liquid Temperature  
Humidity

19.2 Degrees Celsius  
19.0 Degrees Celsius  
61.0 %



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Test Date: 08 January 2009

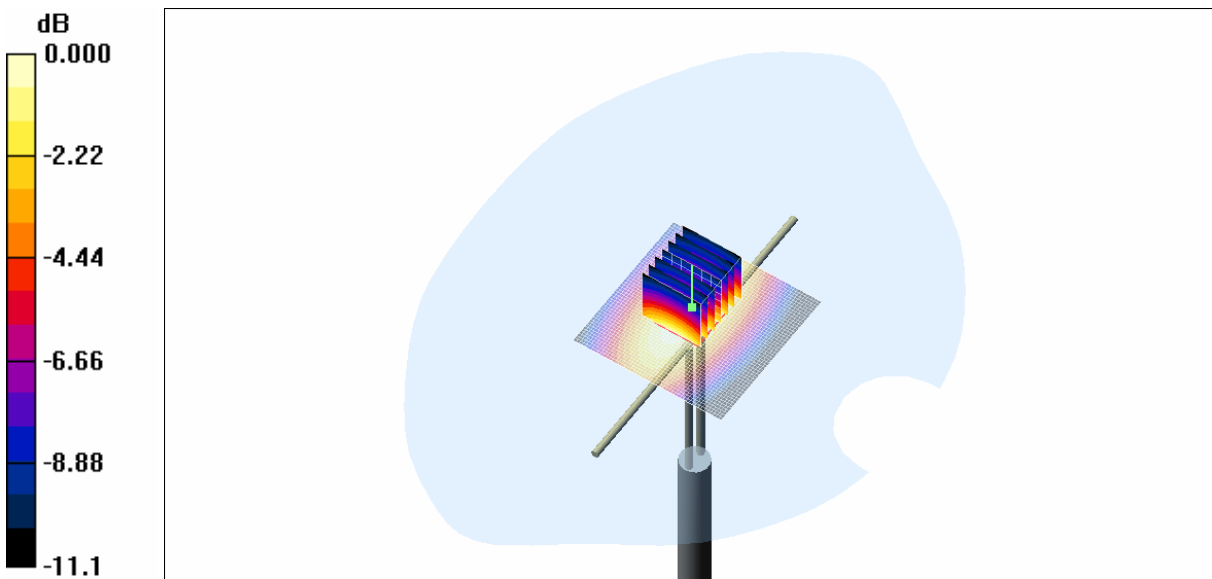
File Name: Validation 900 MHz ( DAE359 Probe 3563) 08-01-09.da4

DUT: Dipole 900 MHz; Type: DV900; Serial: 047

- \* Communication System: CW 900 MHz; Frequency: 900 MHz; Duty Cycle: 1:1
- \* Medium parameters used:  $f = 900 \text{ MHz}$ ;  $\sigma = 0.967 \text{ mho/m}$ ;  $\epsilon_r = 41.7$ ;  $\rho = 1000 \text{ kg/m}^3$
- Electronics: DAE3 Sn359; Probe: EX3DV4 - SN3563; ConvF(8.3, 8.3, 8.3)
- Phantom: SAM 12; Serial: 1060; Phantom section: Flat Section

**Channel 1 Test/Area Scan (51x51x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) =  $2.91 \text{ mW/g}$

**Channel 1 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  
 $dz=5\text{mm}$   
Reference Value =  $54.7 \text{ V/m}$ ; Power Drift =  $0.004 \text{ dB}$   
Peak SAR (extrapolated) =  $4.19 \text{ W/kg}$   
**SAR(1 g) =  $2.7 \text{ mW/g}$ ; SAR(10 g) =  $1.72 \text{ mW/g}$**   
Maximum value of SAR (measured) =  $2.92 \text{ mW/g}$



0 dB =  $2.92 \text{ mW/g}$

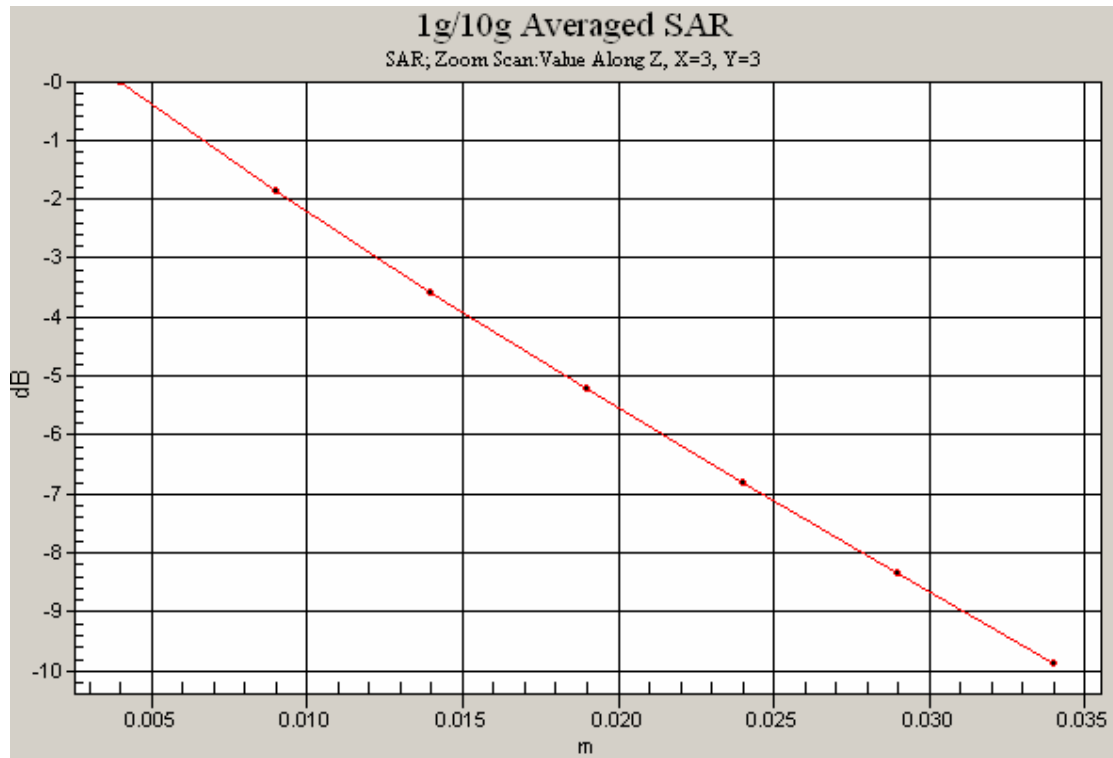
**SAR MEASUREMENT PLOT 21**

Ambient Temperature  
Liquid Temperature  
Humidity

19.7 Degrees Celsius  
19.5 Degrees Celsius  
58.0 %



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Test Date: 18 January 2009

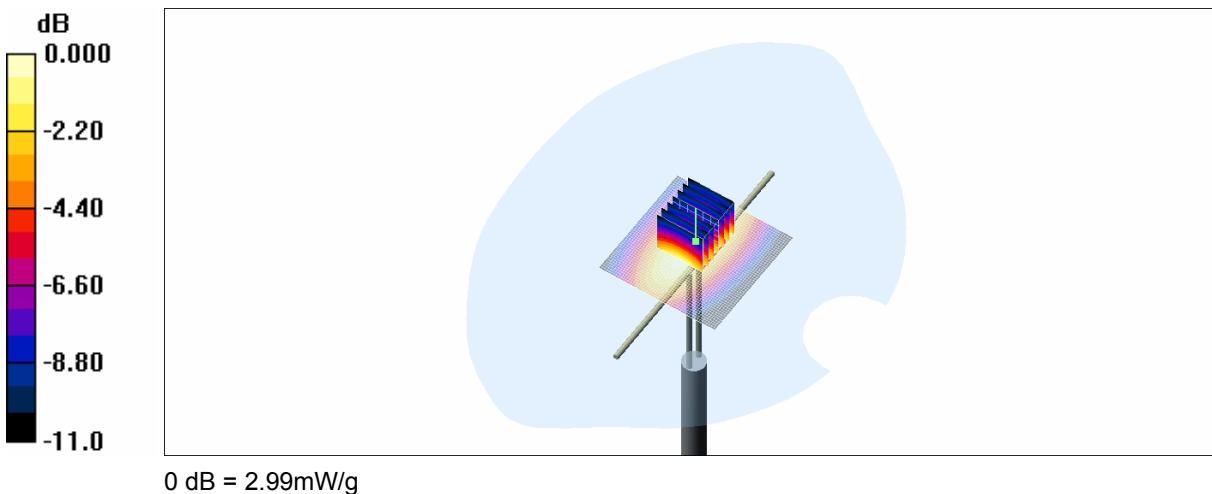
File Name: Validation 900 MHz ( DAE442 Probe1380) 18-01-09.da4

DUT: Dipole 900 MHz; Type: DV900; Serial: 047

- \* Communication System: CW 900 MHz; Frequency: 900 MHz; Duty Cycle: 1:1
- \* Medium parameters used:  $f = 900 \text{ MHz}$ ;  $\sigma = 0.941 \text{ mho/m}$ ;  $\epsilon_r = 40.7$ ;  $\rho = 1000 \text{ kg/m}^3$
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(5.95, 5.95, 5.95)
- Phantom: SAM 12; Serial: 1060; Phantom section: Flat Section

**Channel 1 Test/Area Scan (51x51x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) =  $2.98 \text{ mW/g}$

**Channel 1 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  
 $dz=5\text{mm}$   
Reference Value =  $58.8 \text{ V/m}$ ; Power Drift =  $-0.002 \text{ dB}$   
Peak SAR (extrapolated) =  $4.15 \text{ W/kg}$   
**SAR(1 g) =  $2.76 \text{ mW/g}$ ; SAR(10 g) =  $1.77 \text{ mW/g}$**   
Maximum value of SAR (measured) =  $2.99 \text{ mW/g}$



**SAR MEASUREMENT PLOT 22**

Ambient Temperature  
Liquid Temperature  
Humidity

19.7 Degrees Celsius  
19.5 Degrees Celsius  
51.0 %



