

## APPENDIX B PLOTS OF THE SAR MEASUREMENTS

Plots of the measured SAR distributions inside the phantom are given in this Appendix for the “Lap Arm Held” and “Tablet” tested configurations. The spatial peak SAR values were assessed with the procedure described in this report.

**Table 22: 2450 MHz DSSS Band SAR Measurement Plot Numbers**

<b>Plot 1</b>	Lap Arm Held Position – Ant A – Pre-scan	CH#06
<b>Plot 2</b>	Lap Arm Held Position – Ant A	CH#01
<b>Plot 3</b>	Lap Arm Held Position – Ant A	CH#06
<b>Plot 4</b>	Lap Arm Held Position – Ant A	CH#11
<b>Plot 5</b>	Lap Arm Held Position – Ant B	CH#01
<b>Plot 6</b>	Lap Arm Held Position – Ant B	CH#06
<b>Plot 7</b>	Lap Arm Held Position – Ant B	CH#11
<b>Z-Axis Graphs</b>	Z-Axis graphs for Plots 2 to 7	
<b>Plot 8</b>	Lap Arm Held Position With Blue tooth Ant BTCH#01	CH#06
<b>Plot 9</b>	Lap Arm Held Position With Blue tooth Ant BTCH#40	CH#06
<b>Plot 10</b>	Lap Arm Held Position With Blue tooth Ant BTCH#79	CH#06
<b>Z-axis graphs</b>	Z-Axis graphs for Plots 8 to 10	

**Table 23: 2450 MHz OFDM Band SAR Measurement Plot Numbers**

<b>Plot 11</b>	Tablet Position – Ant B – with BTCH#40	CH#06
<b>Plot 12</b>	Lap Arm Held Position – Ant A	CH#01
<b>Plot 13</b>	Lap Arm Held Position – Ant A	CH#06
<b>Plot 14</b>	Lap Arm Held Position – Ant A	CH#11
<b>Plot 15</b>	Lap Arm Held Position – Ant B	CH#01
<b>Plot 16</b>	Lap Arm Held Position – Ant B	CH#06
<b>Plot 17</b>	Lap Arm Held Position – Ant B	CH#11
<b>Z-axis graphs</b>	Z-Axis graphs for Plots 12 to 17	

**Table 24: 2450MHz Validation Plot**

<b>Plot 18</b>	Validation 2450MHz 24 <sup>th</sup> July 2004
<b>Plot 19</b>	Validation 2450MHz 26 <sup>th</sup> July 2004
<b>Plot 20</b>	Validation 2450MHz 27 <sup>th</sup> July 2004
<b>Z-Axis Graphs</b>	Z-Axis graphs for Plots 18 to 20

Test Date: 24 July 2004

File Name: [Arm Held DSSS 2450 MHz Soriel Antenna A Bluetooth Off Prescan 24-07-04.da4](#)

DUT: Fujitsu Tablet Soriel with Atheros 11abg and Bluetooth; Type: WLL 4030-D50; Serial: MAC: 009096-6CAE3F

\* Communication System: DSSS 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $\sigma = 1.9482$ ; mho/m,  $\epsilon_r = 50.5691$ ;  $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.16, 4.16, 4.16)

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

**Channel 6 Test/Area Scan (141x161x1):** Measurement grid: dx=20mm, dy=20mm

Reference Value = 18.9 V/m; Power Drift = 0.0 dB

Maximum value of SAR (interpolated) = 0.397 mW/g

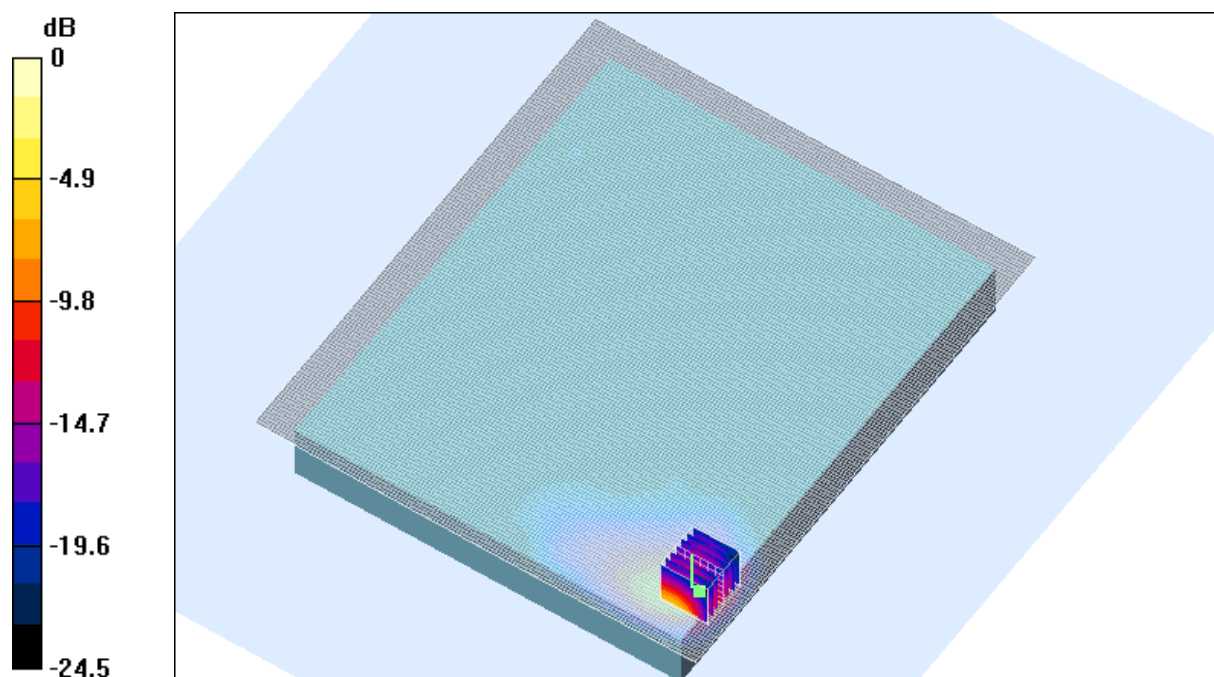
**Channel 6 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 18.9 V/m; Power Drift = 0.0 dB

Maximum value of SAR (measured) = 0.636 mW/g

Peak SAR (extrapolated) = 1.57 W/kg

**SAR(1 g) = 0.557 mW/g; SAR(10 g) = 0.217 mW/g**



0 dB = 0.636mW/g

**SAR MEASUREMENT PLOT 1**

Ambient Temperature  
Liquid Temperature  
Humidity

20.1 Degrees Celsius  
19.7 Degrees Celsius  
46 %

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Test Date: 26 July 2004

File Name: [Arm Held DSSS 2450 MHz Soriel Antenna A Bluetooth Off 26-07-04.da4](#)

DUT: Fujitsu Tablet Soriel with Atheros 11abg and Bluetooth; Type: WLL 4030-D50; Serial: MAC: 009096-6CAE3F

\* Communication System: DSSS 2450 MHz; Frequency: 2412 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $\sigma = 1.96175$ ;  $mho/m$ ,  $\epsilon_r = 50.9845$ ;  $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.16, 4.16, 4.16)

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

**Channel 1 Test/Area Scan (61x81x1):** Measurement grid: dx=20mm, dy=20mm

Reference Value = 18.3 V/m; Power Drift = -0.3 dB

Maximum value of SAR (interpolated) = 0.415 mW/g

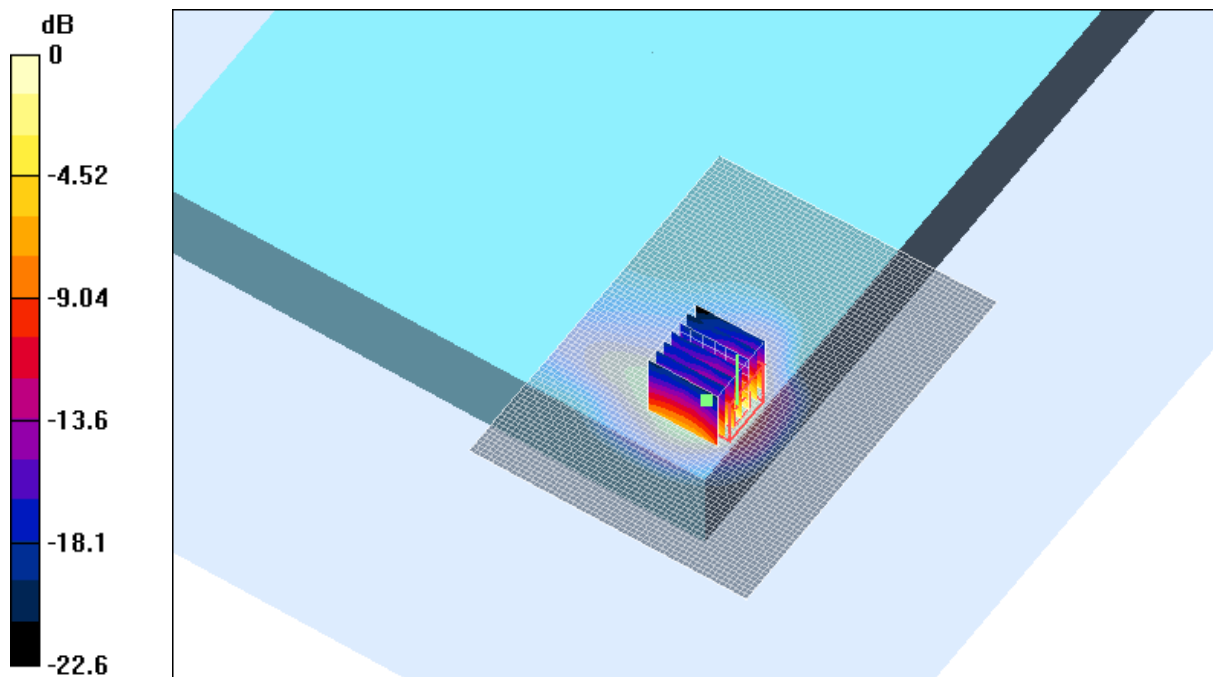
**Channel 1 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 18.3 V/m; Power Drift = -0.3 dB

Maximum value of SAR (measured) = 0.594 mW/g

Peak SAR (extrapolated) = 1.44 W/kg

**SAR(1 g) = 0.532 mW/g; SAR(10 g) = 0.205 mW/g**



0 dB = 0.594mW/g

**SAR MEASUREMENT PLOT 2**

Ambient Temperature  
Liquid Temperature  
Humidity

20.3 Degrees Celsius  
19.5 Degrees Celsius  
42 %

Test Date: 26 July 2004

File Name: [Arm Held DSSS 2450 MHz Soriel Antenna A Bluetooth Off 26-07-04.da4](#)

DUT: Fujitsu Tablet Soriel with Atheros 11abg and Bluetooth; Type: WLL 4030-D50; Serial: MAC: 009096-6CAE3F

\* Communication System: DSSS 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $\sigma = 1.9946$ ; mho/m,  $\epsilon_r = 50.8525$ ;  $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.16, 4.16, 4.16)

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

**Channel 6 Test/Area Scan (61x81x1):** Measurement grid: dx=20mm, dy=20mm

Reference Value = 16.7 V/m; Power Drift = 0.1 dB

Maximum value of SAR (interpolated) = 0.353 mW/g

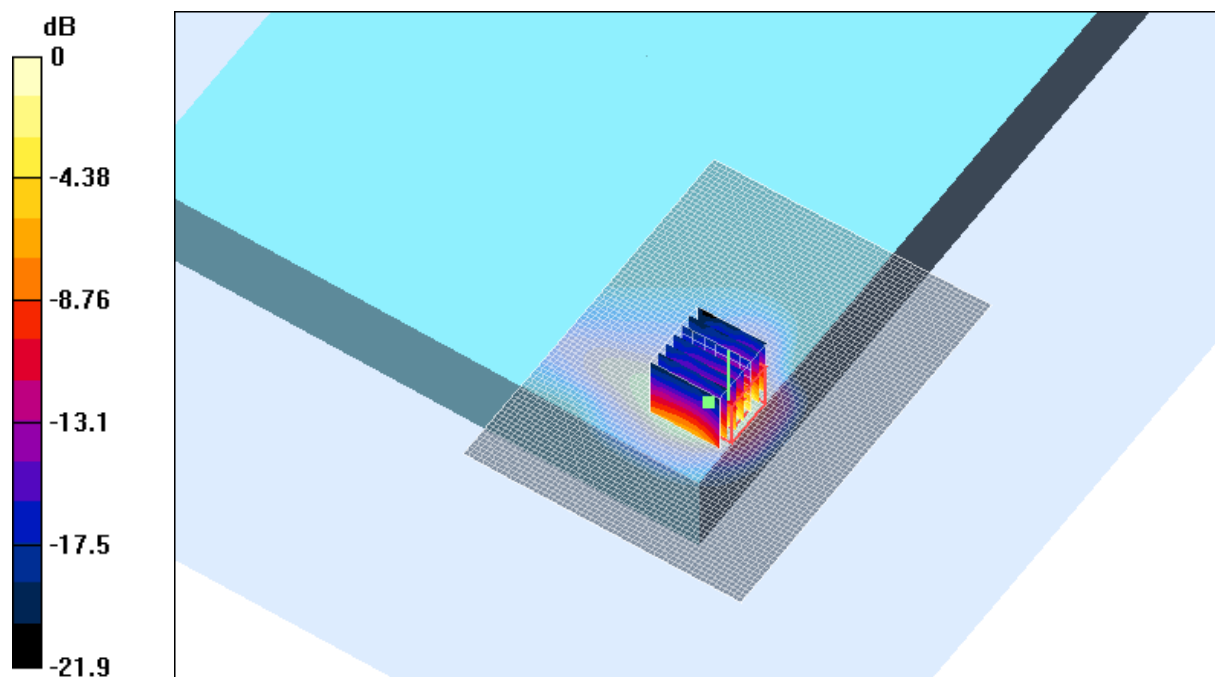
**Channel 6 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.7 V/m; Power Drift = 0.1 dB

Maximum value of SAR (measured) = 0.619 mW/g

Peak SAR (extrapolated) = 1.53 W/kg

**SAR(1 g) = 0.552 mW/g; SAR(10 g) = 0.215 mW/g**



**SAR MEASUREMENT PLOT 3**

Ambient Temperature  
Liquid Temperature  
Humidity

20.3 Degrees Celsius  
19.5 Degrees Celsius  
42 %

Test Date: 26 July 2004

File Name: [Arm Held DSSS 2450 MHz Soriel Antenna A Bluetooth Off 26-07-04.da4](#)

DUT: Fujitsu Tablet Soriel with Atheros 11abg and Bluetooth; Type: WLL 4030-D50; Serial: MAC: 009096-6CAE3F

\* Communication System: DSSS 2450 MHz; Frequency: 2462 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $\sigma = 2.02933$ ; mho/m,  $\epsilon_r = 50.6999$ ;  $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.16, 4.16, 4.16)

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

**Channel 11 Test/Area Scan (61x81x1):** Measurement grid: dx=20mm, dy=20mm

Reference Value = 17 V/m; Power Drift = -0.006 dB

Maximum value of SAR (interpolated) = 0.364 mW/g

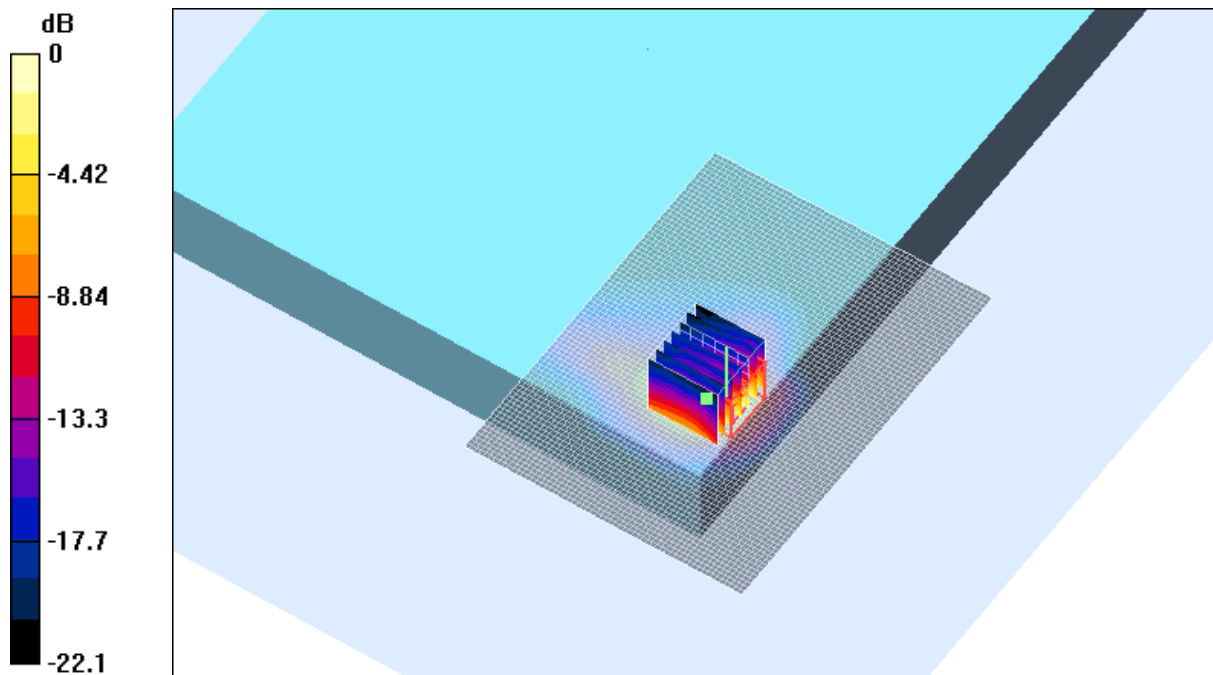
**Channel 11 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 17 V/m; Power Drift = -0.006 dB

Maximum value of SAR (measured) = 0.632 mW/g

Peak SAR (extrapolated) = 1.59 W/kg

**SAR(1 g) = 0.569 mW/g; SAR(10 g) = 0.219 mW/g**



0 dB = 0.632mW/g

**SAR MEASUREMENT PLOT 4**

Ambient Temperature  
Liquid Temperature  
Humidity

20.3 Degrees Celsius  
19.5 Degrees Celsius  
42 %

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Test Date: 26 July 2004

File Name: [Arm Held DSSS 2450 MHz Soriel Antenna B Bluetooth Off 26-07-04.da4](#)

DUT: Fujitsu Tablet Soriel with Atheros 11abg and Bluetooth; Type: WLL 4030-D50; Serial: MAC: 009096-6CAE3F

\* Communication System: DSSS 2450 MHz; Frequency: 2412 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $\sigma = 1.96175$ ;  $\text{mho/m}$ ,  $\epsilon_r = 50.9845$ ;  $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.16, 4.16, 4.16)

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

**Channel 1 Test/Area Scan (61x81x1):** Measurement grid: dx=20mm, dy=20mm

Reference Value = 18.2 V/m; Power Drift = 0.1 dB

Maximum value of SAR (interpolated) = 0.786 mW/g

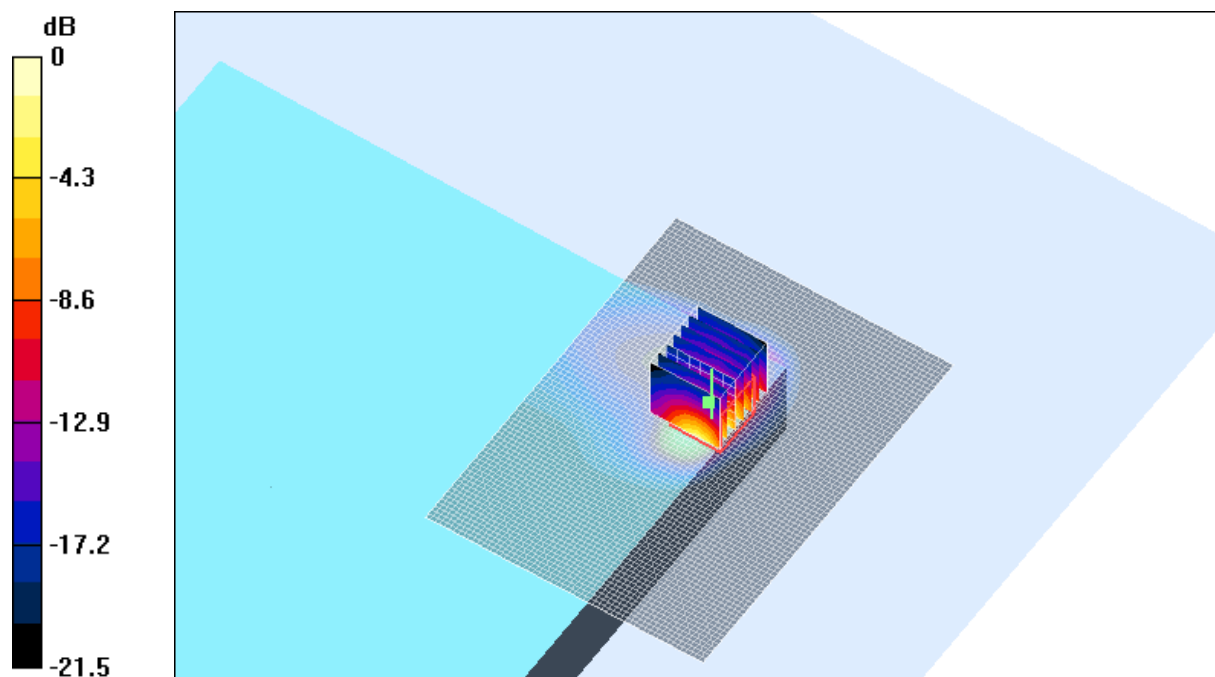
**Channel 1 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 18.2 V/m; Power Drift = 0.1 dB

Maximum value of SAR (measured) = 0.778 mW/g

Peak SAR (extrapolated) = 1.62 W/kg

**SAR(1 g) = 0.659 mW/g; SAR(10 g) = 0.274 mW/g**



0 dB = 0.778mW/g

**SAR MEASUREMENT PLOT 5**

Ambient Temperature  
Liquid Temperature  
Humidity

20.3 Degrees Celsius  
19.5 Degrees Celsius  
42 %

Test Date: 26 July 2004

File Name: [Arm Held DSSS 2450 MHz Soriel Antenna B Bluetooth Off 26-07-04.da4](#)

DUT: Fujitsu Tablet Soriel with Atheros 11abg and Bluetooth; Type: WLL 4030-D50; Serial: MAC: 009096-6CAE3F

\* Communication System: DSSS 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $\sigma = 1.9946$ ; mho/m,  $\epsilon_r = 50.8525$ ;  $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.16, 4.16, 4.16)

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

**Channel 6 Test/Area Scan (61x81x1):** Measurement grid: dx=20mm, dy=20mm

Reference Value = 18.9 V/m; Power Drift = -0.3 dB

Maximum value of SAR (interpolated) = 0.891 mW/g

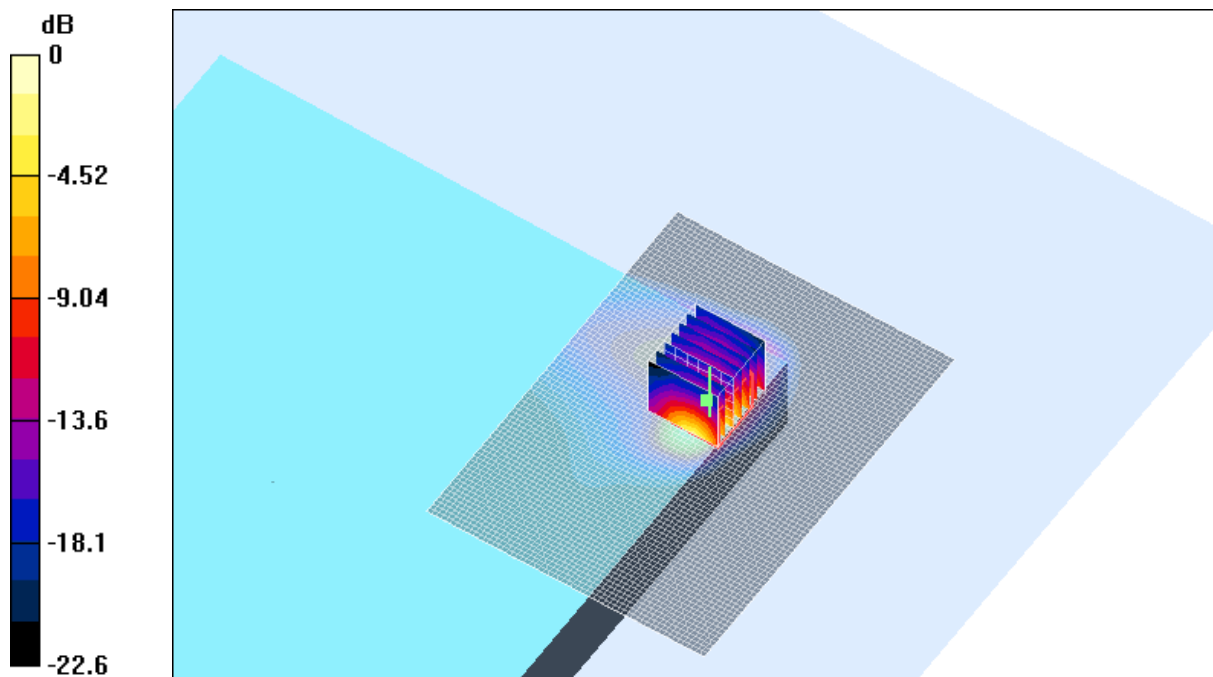
**Channel 6 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 18.9 V/m; Power Drift = -0.3 dB

Maximum value of SAR (measured) = 0.903 mW/g

Peak SAR (extrapolated) = 2.03 W/kg

**SAR(1 g) = 0.789 mW/g; SAR(10 g) = 0.323 mW/g**



0 dB = 0.903mW/g

**SAR MEASUREMENT PLOT 6**

Ambient Temperature  
Liquid Temperature  
Humidity

20.3 Degrees Celsius  
19.5 Degrees Celsius  
42 %



Test Date: 26 July 2004

File Name: [Arm Held DSSS 2450 MHz Soriel Antenna B Bluetooth Off 26-07-04.da4](#)

DUT: Fujitsu Tablet Soriel with Atheros 11abg and Bluetooth; Type: WLL 4030-D50; Serial: MAC: 009096-6CAE3F

\* Communication System: DSSS 2450 MHz; Frequency: 2462 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $\sigma = 2.02933$ ; mho/m,  $\epsilon_r = 50.6999$ ;  $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.16, 4.16, 4.16)

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

**Channel 11 Test/Area Scan (61x81x1):** Measurement grid: dx=20mm, dy=20mm

Reference Value = 20.3 V/m; Power Drift = -0.2 dB

Maximum value of SAR (interpolated) = 0.916 mW/g

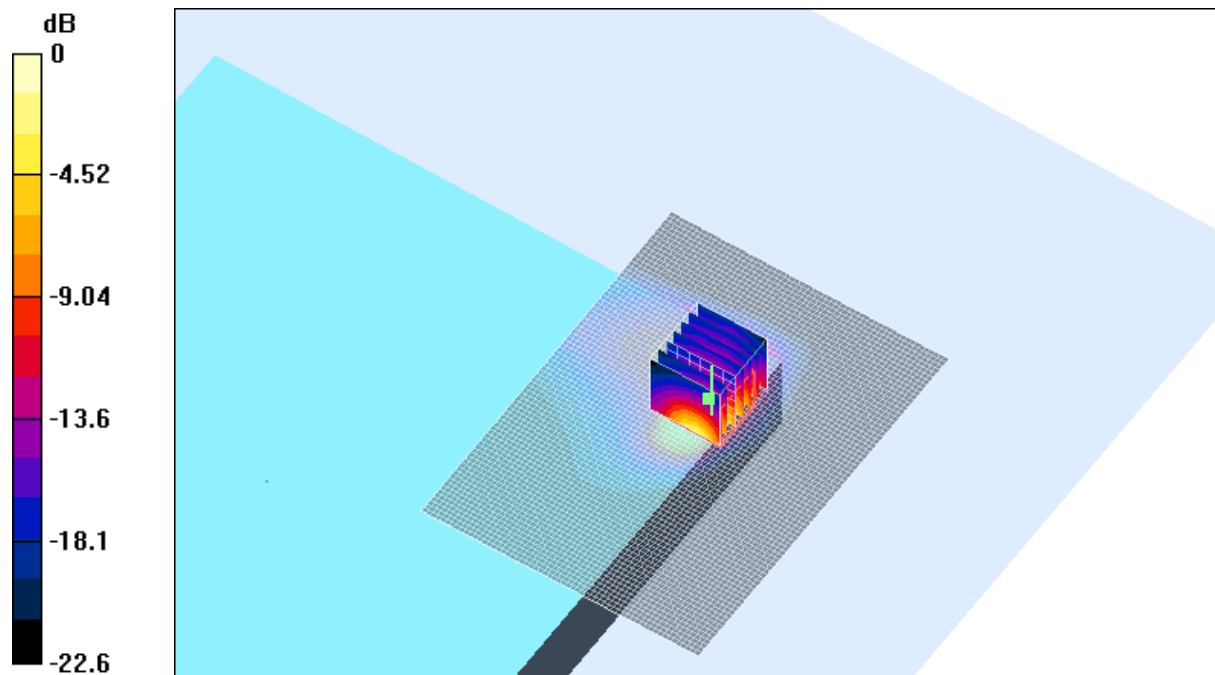
**Channel 11 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 20.3 V/m; Power Drift = -0.2 dB

Maximum value of SAR (measured) = 0.913 mW/g

Peak SAR (extrapolated) = 2.09 W/kg

**SAR(1 g) = 0.787 mW/g; SAR(10 g) = 0.319 mW/g**



0 dB = 0.913mW/g

**SAR MEASUREMENT PLOT 7**

Ambient Temperature  
Liquid Temperature  
Humidity

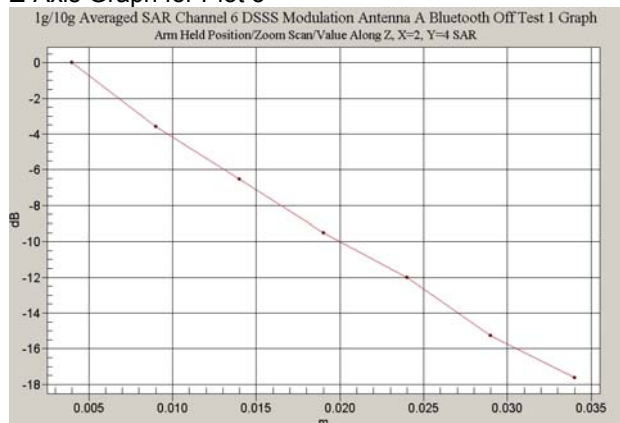
20.3 Degrees Celsius  
19.5 Degrees Celsius  
42 %

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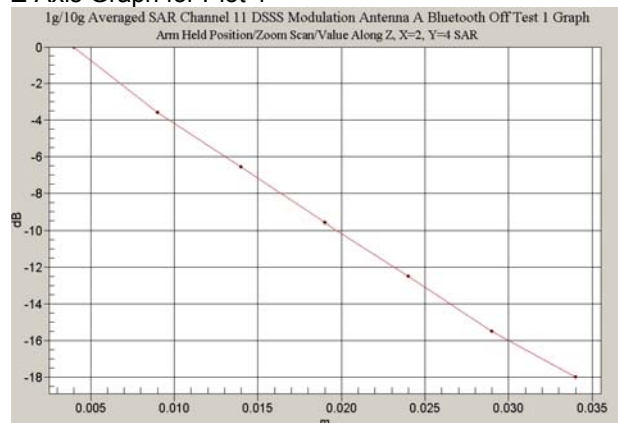
Z-Axis Graph for Plot 2



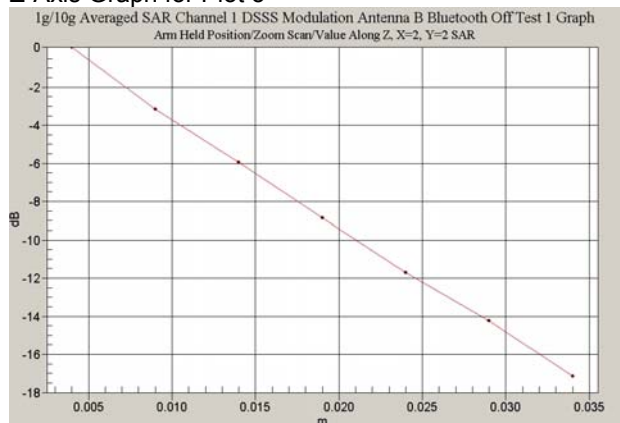
Z-Axis Graph for Plot 3



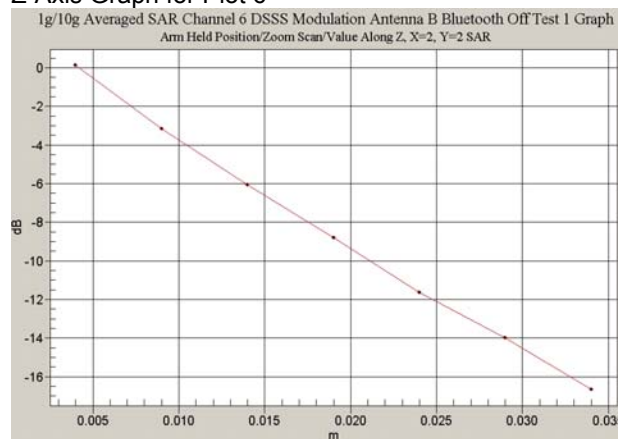
Z-Axis Graph for Plot 4



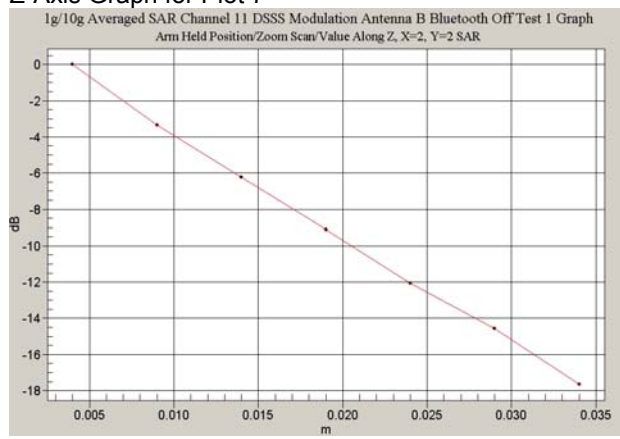
Z-Axis Graph for Plot 5



Z-Axis Graph for Plot 6



Z-Axis Graph for Plot 7



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Test Date: 27 July 2004

File Name: [Arm Held DSSS 2450 MHz Soriel Antenna B Bluetooth On 27-07-04.da4](#)

DUT: Fujitsu Tablet Soriel with Atheros 11abg and Bluetooth; Type: WLL 4030-D50; Serial: MAC: 009096-6CAE3F

\* Communication System: DSSS 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $\sigma = 1.97011$ ; mho/m,  $\epsilon_r = 50.3507$ ;  $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.16, 4.16, 4.16)

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

**Channel 6 Bluetooth at 2402 MHz Test/Area Scan (61x81x1):** Measurement grid:

dx=20mm, dy=20mm

Reference Value = 20.8 V/m; Power Drift = -0.2 dB

Maximum value of SAR (interpolated) = 0.618 mW/g

**Channel 6 Bluetooth at 2402 MHz Test/Zoom Scan (7x7x7)/Cube 0:** Measurement

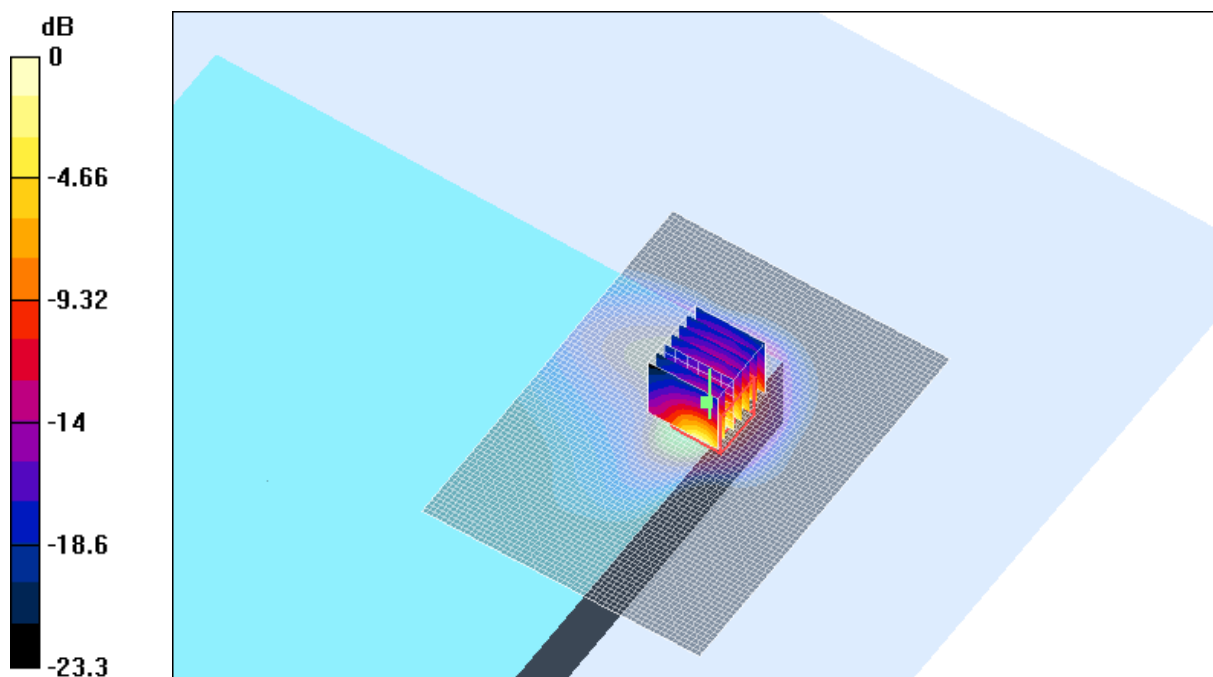
grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 20.8 V/m; Power Drift = -0.2 dB

Maximum value of SAR (measured) = 0.751 mW/g

Peak SAR (extrapolated) = 1.69 W/kg

**SAR(1 g) = 0.667 mW/g; SAR(10 g) = 0.276 mW/g**



0 dB = 0.751mW/g

**SAR MEASUREMENT PLOT 8**

Ambient Temperature  
Liquid Temperature  
Humidity

20.3 Degrees Celsius  
19.7 Degrees Celsius  
34 %

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Test Date: 27 July 2004

File Name: [Arm Held DSSS 2450 MHz Soriel Antenna B Bluetooth On 27-07-04.da4](#)

DUT: Fujitsu Tablet Soriel with Atheros 11abg and Bluetooth; Type: WLL 4030-D50; Serial: MAC: 009096-6CAE3F

\* Communication System: DSSS 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $\sigma = 1.97011$ ; mho/m,  $\epsilon_r = 50.3507$ ;  $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.16, 4.16, 4.16)

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

**Channel 6 Bluetooth at 2441 MHz Test/Area Scan (61x81x1):** Measurement grid:

dx=20mm, dy=20mm

Reference Value = 20.4 V/m; Power Drift = -0.1 dB

Maximum value of SAR (interpolated) = 0.824 mW/g

**Channel 6 Bluetooth at 2441 MHz Test/Zoom Scan (7x7x7)/Cube 0:** Measurement

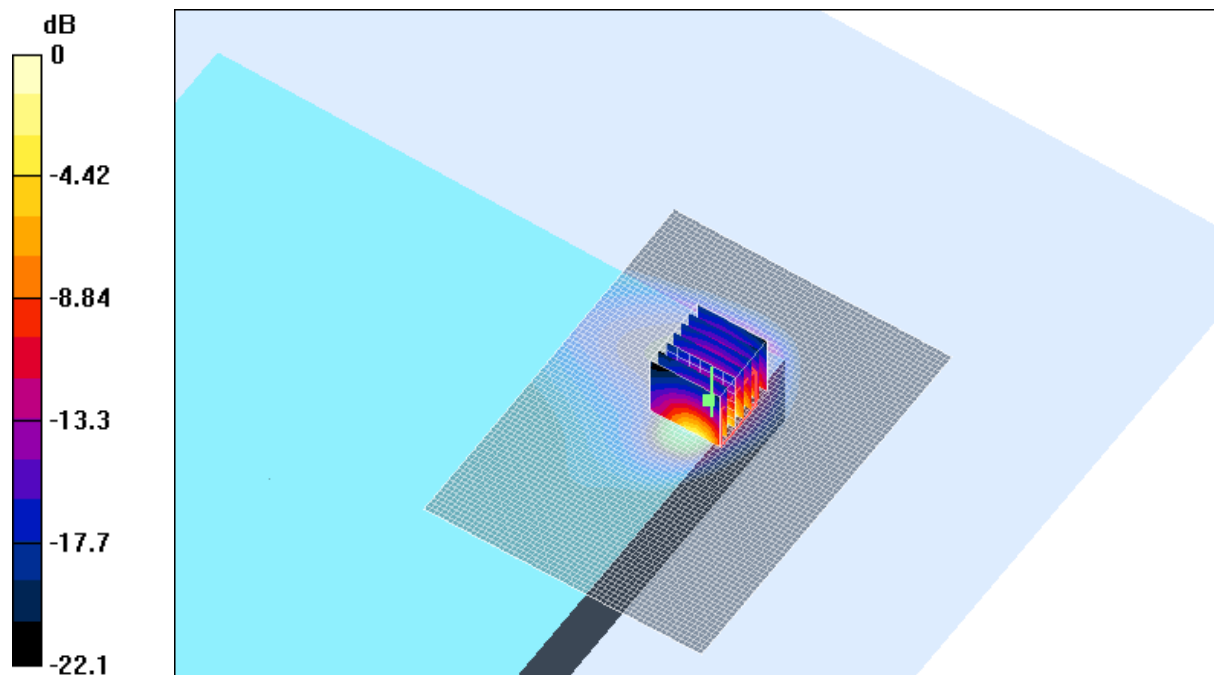
grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 20.4 V/m; Power Drift = -0.1 dB

Maximum value of SAR (measured) = 0.801 mW/g

Peak SAR (extrapolated) = 1.78 W/kg

**SAR(1 g) = 0.694 mW/g; SAR(10 g) = 0.285 mW/g**



0 dB = 0.801mW/g

**SAR MEASUREMENT PLOT 9**

Ambient Temperature  
Liquid Temperature  
Humidity

20.3 Degrees Celsius  
19.7 Degrees Celsius  
34 %

Test Date: 27 July 2004

File Name: [Arm Held DSSS 2450 MHz Soriel Antenna B Bluetooth On 27-07-04.da4](#)

DUT: Fujitsu Tablet Soriel with Atheros 11abg and Bluetooth; Type: WLL 4030-D50; Serial: MAC: 009096-6CAE3F

\* Communication System: DSSS 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $\sigma = 1.97011$ ; mho/m,  $\epsilon_r = 50.3507$ ;  $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.16, 4.16, 4.16)

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

**Channel 6 Bluetooth at 2480 MHz Test/Area Scan (61x81x1):** Measurement grid:

dx=20mm, dy=20mm

Reference Value = 20.4 V/m; Power Drift = 0.1 dB

Maximum value of SAR (interpolated) = 0.793 mW/g

**Channel 6 Bluetooth at 2480 MHz Test/Zoom Scan (7x7x7)/Cube 0:** Measurement

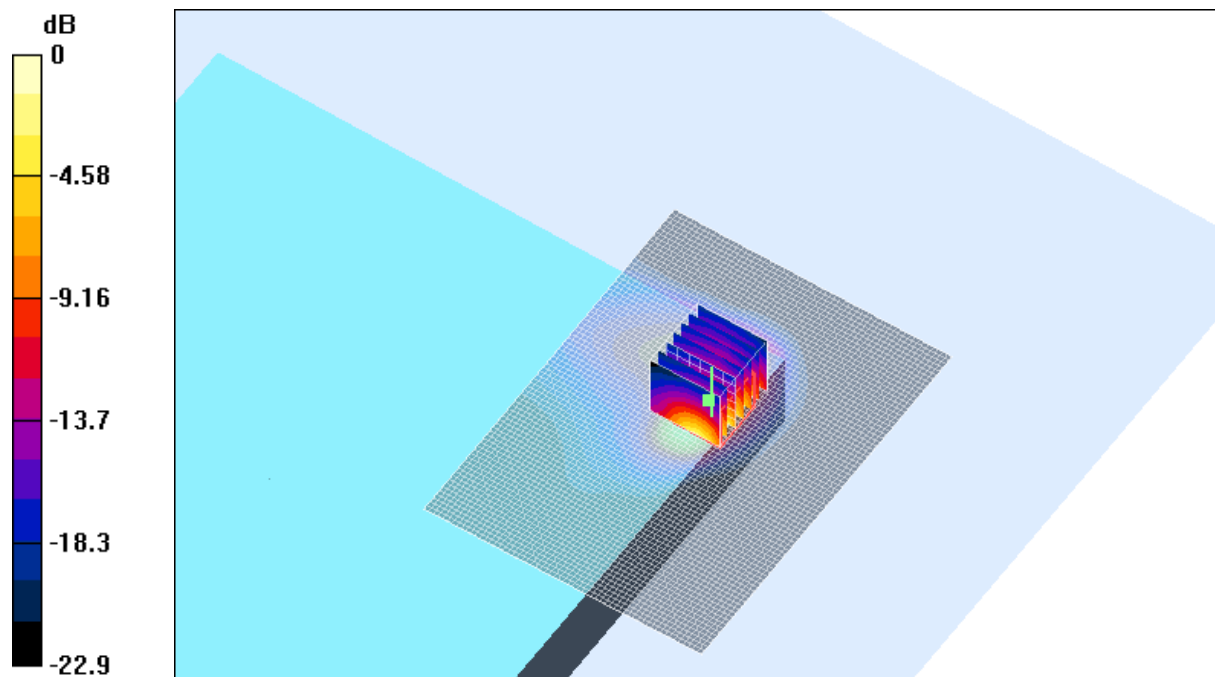
grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 20.4 V/m; Power Drift = 0.1 dB

Maximum value of SAR (measured) = 0.844 mW/g

Peak SAR (extrapolated) = 1.85 W/kg

SAR(1 g) = 0.728 mW/g; SAR(10 g) = 0.300 mW/g



0 dB = 0.844mW/g

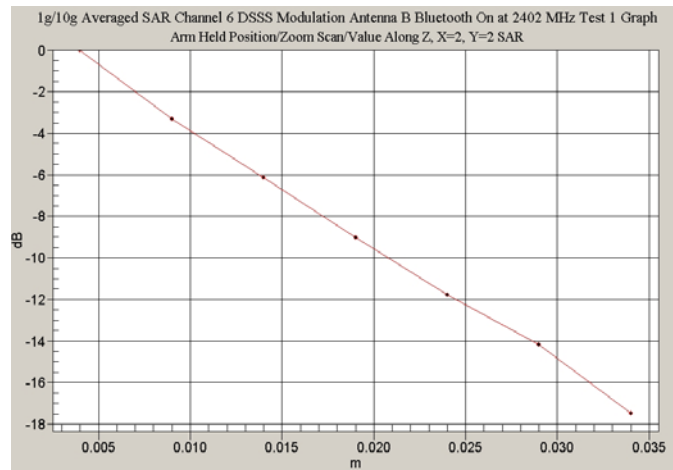
**SAR MEASUREMENT PLOT 10**

Ambient Temperature  
Liquid Temperature  
Humidity

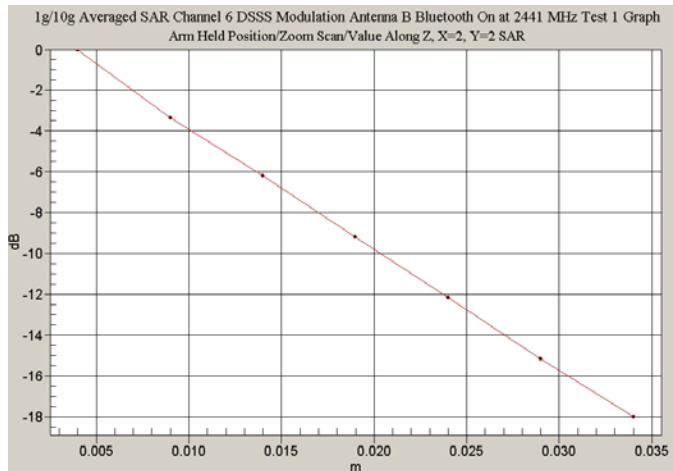
20.3 Degrees Celsius  
19.7 Degrees Celsius  
34 %

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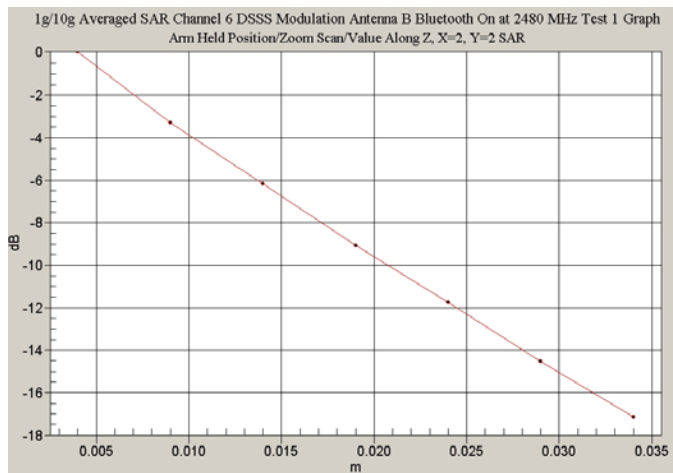
Z-Axis Graph for Plot 8



Z-Axis Graph for Plot 9



Z-Axis Graph for Plot 10



Test Date: 24 July 2004

File Name: [Tablet DSSS 2450 MHz Soriel Antenna B Bluetooth On Prescan 24-07-04.da4](#)

DUT: Fujitsu Tablet Soriel with Atheros 11abg and Bluetooth; Type: WLL 4030-D50; Serial: MAC: 009096-6CAE3F

\* Communication System: DSSS 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $\sigma = 1.9482$ ; mho/m,  $\epsilon_r = 50.5691$ ;  $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.16, 4.16, 4.16)

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

**Channel 6 Bluetooth at 2441 MHz Test/Area Scan (141x161x1):** Measurement grid: dx=20mm, dy=20mm

Reference Value = 0.784 V/m; Power Drift = -1 dB

Maximum value of SAR (interpolated) = 0.00652 mW/g

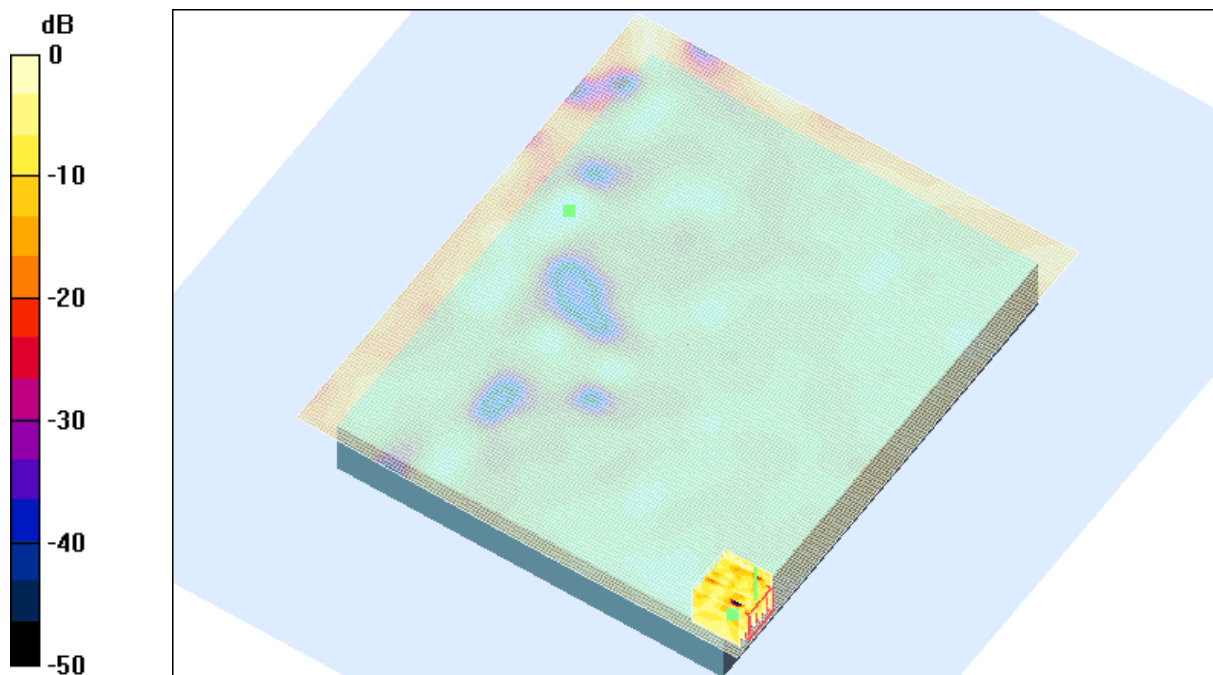
**Channel 6 Bluetooth at 2441 MHz Test/Zoom Scan (7x7x7)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.784 V/m; Power Drift = -1 dB

Maximum value of SAR (measured) = 0.00711 mW/g

Peak SAR (extrapolated) = 0.018 W/kg

**SAR(1 g) = 0.00478 mW/g; SAR(10 g) = 0.00312 mW/g**



0 dB = 0.00711mW/g

**SAR MEASUREMENT PLOT 11**

Ambient Temperature  
Liquid Temperature  
Humidity

20.1 Degrees Celsius  
19.7 Degrees Celsius  
46 %

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Test Date: 27 July 2004

File Name: [Arm Held OFDM 2450 MHz Soriel Antenna A Bluetooth Off 27-07-04.da4](#)

DUT: Fujitsu Tablet Soriel with Atheros 11abg and Bluetooth; Type: WLL 4030-D50; Serial: MAC: 009096-6CAE3F

\* Communication System: OFDM 2450 MHz; Frequency: 2412 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $\sigma = 1.93628$ ; mho/m,  $\epsilon_r = 50.4958$ ;  $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.16, 4.16, 4.16)

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

**Channel 1 Test/Area Scan (61x81x1):** Measurement grid: dx=20mm, dy=20mm

Reference Value = 18 V/m; Power Drift = -0.2 dB

Maximum value of SAR (interpolated) = 0.427 mW/g

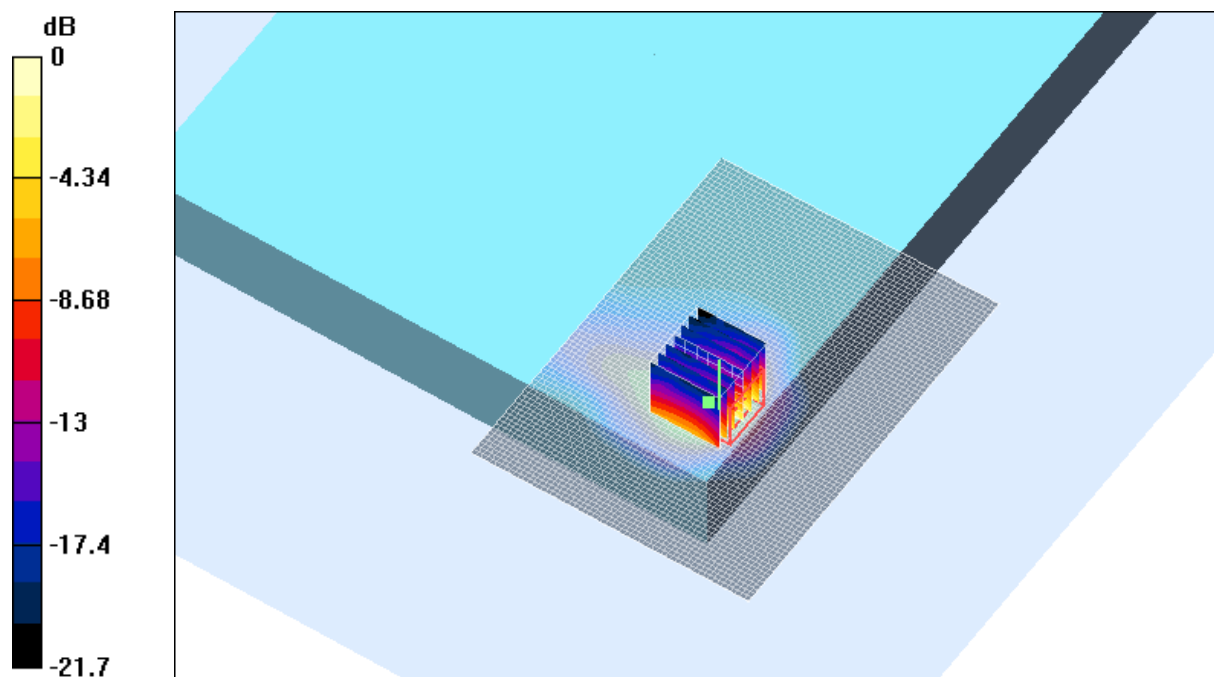
**Channel 1 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 18 V/m; Power Drift = -0.2 dB

Maximum value of SAR (measured) = 0.544 mW/g

Peak SAR (extrapolated) = 1.4 W/kg

**SAR(1 g) = 0.505 mW/g; SAR(10 g) = 0.197 mW/g**



0 dB = 0.544mW/g

**SAR MEASUREMENT PLOT 12**

Ambient Temperature  
Liquid Temperature  
Humidity

20.3 Degrees Celsius  
19.7 Degrees Celsius  
34 %



Test Date: 26 July 2004

File Name: [Arm Held OFDM 2450 MHz Soriel Antenna A Bluetooth Off 26-07-04.da4](#)

DUT: Fujitsu Tablet Soriel with Atheros 11abg and Bluetooth; Type: WLL 4030-D50; Serial: MAC: 009096-6CAE3F

\* Communication System: OFDM 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $\sigma = 1.9946$ ; mho/m,  $\epsilon_r = 50.8525$ ;  $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.16, 4.16, 4.16)

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

**Channel 6 Test/Area Scan (61x81x1):** Measurement grid: dx=20mm, dy=20mm

Reference Value = 18 V/m; Power Drift = -0.1 dB

Maximum value of SAR (interpolated) = 0.425 mW/g

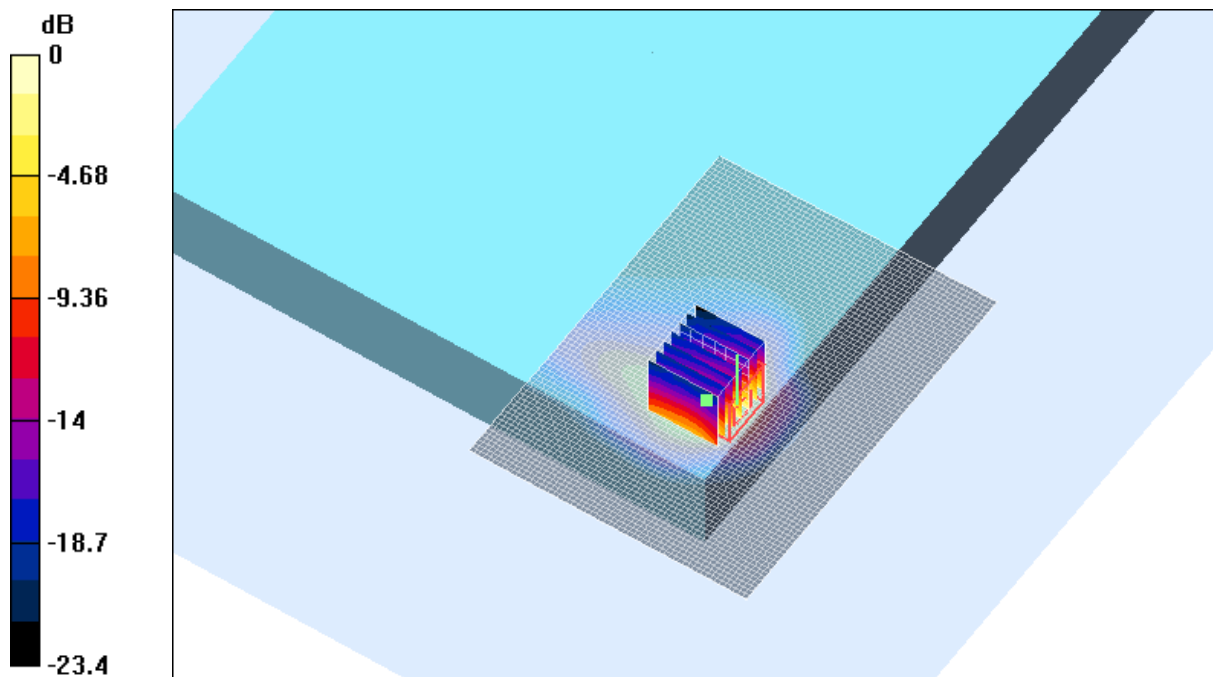
**Channel 6 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 18 V/m; Power Drift = -0.1 dB

Maximum value of SAR (measured) = 0.622 mW/g

Peak SAR (extrapolated) = 1.55 W/kg

**SAR(1 g) = 0.558 mW/g; SAR(10 g) = 0.211 mW/g**



0 dB = 0.622mW/g

**SAR MEASUREMENT PLOT 13**

Ambient Temperature  
Liquid Temperature  
Humidity

20.3 Degrees Celsius  
19.5 Degrees Celsius  
42 %

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Test Date: 27 July 2004

File Name: [Arm Held OFDM 2450 MHz Soriel Antenna A Bluetooth Off 27-07-04.da4](#)

DUT: Fujitsu Tablet Soriel with Atheros 11abg and Bluetooth; Type: WLL 4030-D50; Serial: MAC: 009096-6CAE3F

\* Communication System: OFDM 2450 MHz; Frequency: 2462 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $\sigma = 2.00156$ ; mho/m,  $\epsilon_r = 50.187$ ;  $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.16, 4.16, 4.16)

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

**Channel 11 Test/Area Scan (61x81x1):** Measurement grid: dx=20mm, dy=20mm

Reference Value = 18.1 V/m; Power Drift = -0.3 dB

Maximum value of SAR (interpolated) = 0.424 mW/g

**Channel 11 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm,

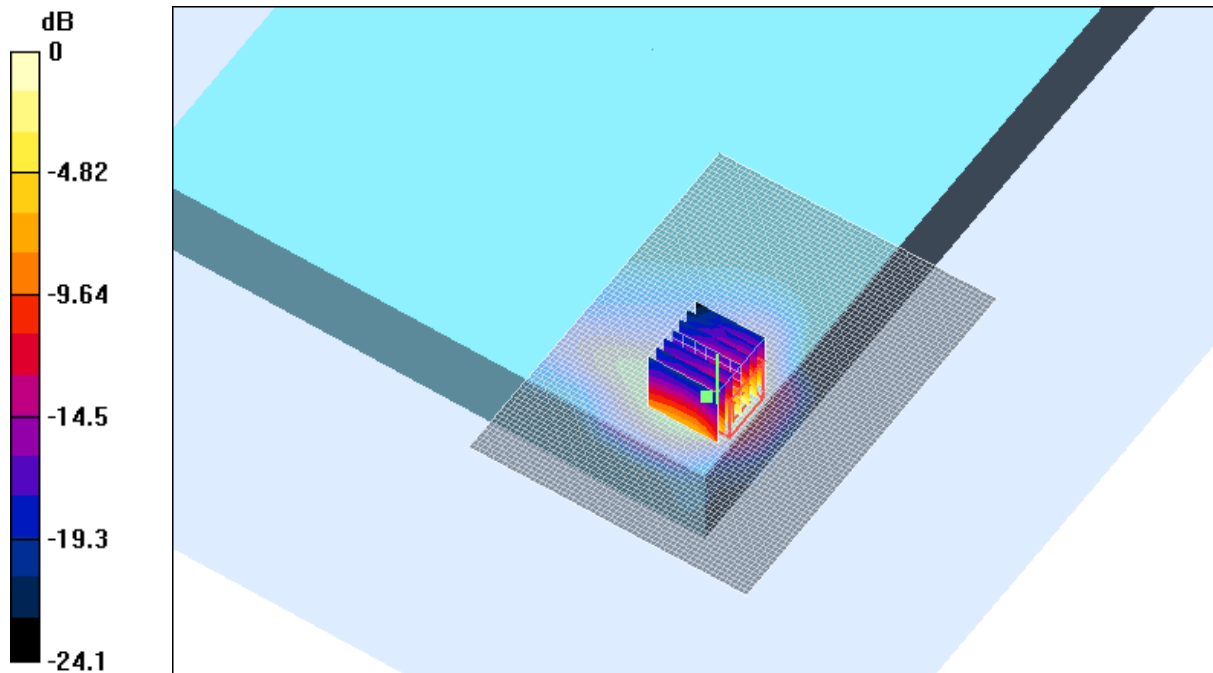
dz=5mm

Reference Value = 18.1 V/m; Power Drift = -0.3 dB

Maximum value of SAR (measured) = 0.568 mW/g

Peak SAR (extrapolated) = 1.43 W/kg

**SAR(1 g) = 0.516 mW/g; SAR(10 g) = 0.198 mW/g**



0 dB = 0.568mW/g

**SAR MEASUREMENT PLOT 14**

Ambient Temperature  
Liquid Temperature  
Humidity

20.3 Degrees Celsius  
19.7 Degrees Celsius  
34 %

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Test Date: 26 July 2004

File Name: [Arm Held OFDM 2450 MHz Soriel Antenna B Bluetooth Off 26-07-04.da4](#)

DUT: Fujitsu Tablet Soriel with Atheros 11abg and Bluetooth; Type: WLL 4030-D50; Serial: MAC: 009096-6CAE3F

\* Communication System: OFDM 2450 MHz; Frequency: 2412 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $\sigma = 1.96175$ ; mho/m,  $\epsilon_r = 50.9845$ ;  $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.16, 4.16, 4.16)

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

**Channel 1 Test/Area Scan (61x81x1):** Measurement grid: dx=20mm, dy=20mm

Reference Value = 16 V/m; Power Drift = 0.004 dB

Maximum value of SAR (interpolated) = 0.718 mW/g

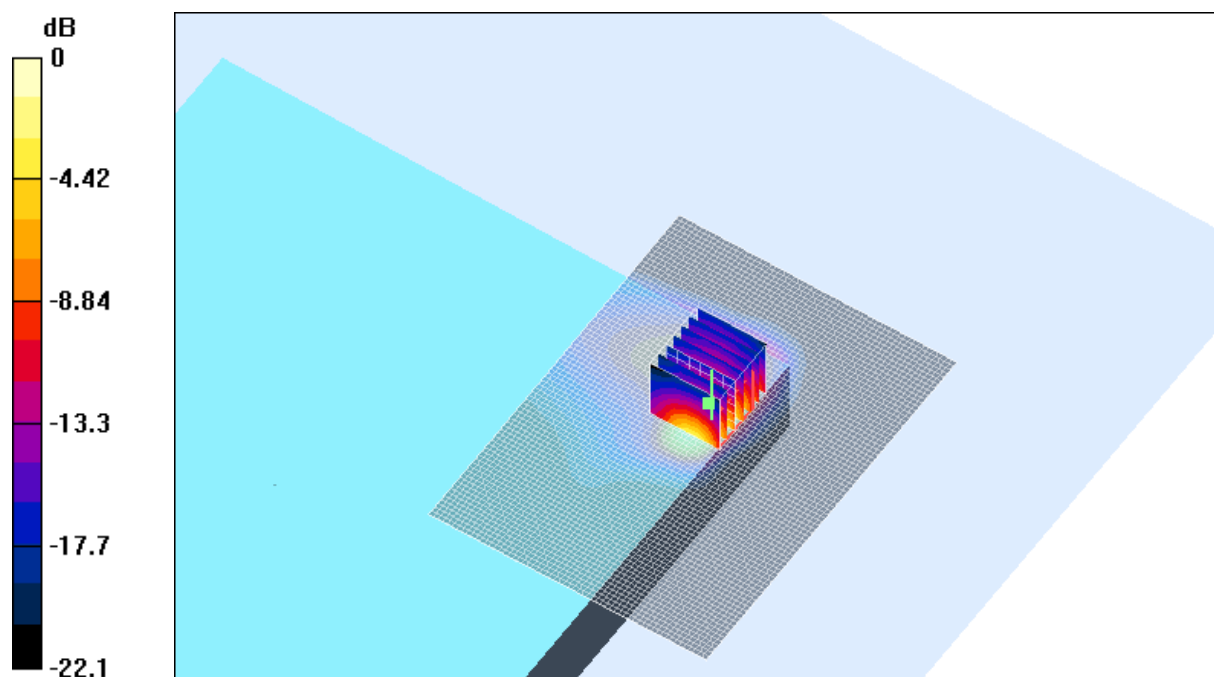
**Channel 1 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16 V/m; Power Drift = 0.004 dB

Maximum value of SAR (measured) = 0.674 mW/g

Peak SAR (extrapolated) = 1.53 W/kg

**SAR(1 g) = 0.616 mW/g; SAR(10 g) = 0.256 mW/g**



0 dB = 0.674mW/g

**SAR MEASUREMENT PLOT 15**

Ambient Temperature  
Liquid Temperature  
Humidity

20.3 Degrees Celsius  
19.5 Degrees Celsius  
42 %

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Test Date: 26 July 2004

File Name: [Arm Held OFDM 2450 MHz Soriel Antenna B Bluetooth Off 26-07-04.da4](#)

DUT: Fujitsu Tablet Soriel with Atheros 11abg and Bluetooth; Type: WLL 4030-D50; Serial: MAC: 009096-6CAE3F

\* Communication System: OFDM 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $\sigma = 1.9946$ ; mho/m,  $\epsilon_r = 50.8525$ ;  $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.16, 4.16, 4.16)

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

**Channel 6 Test/Area Scan (61x81x1):** Measurement grid: dx=20mm, dy=20mm

Reference Value = 19.9 V/m; Power Drift = 0.1 dB

Maximum value of SAR (interpolated) = 0.814 mW/g

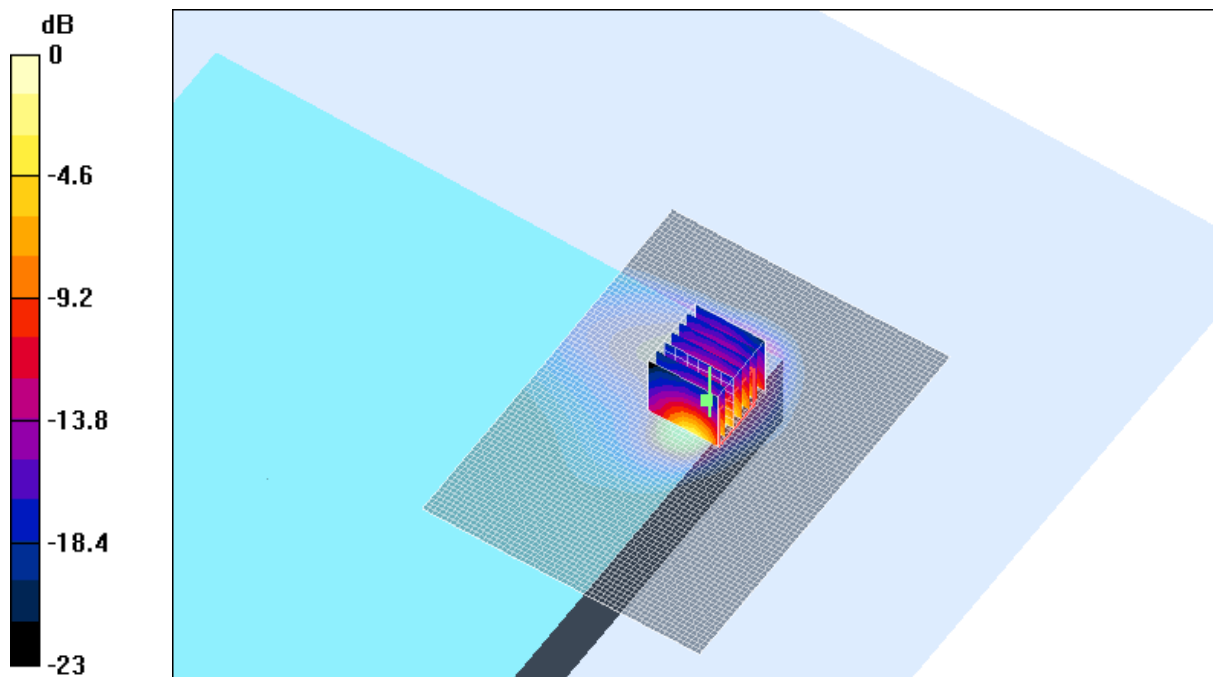
**Channel 6 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 19.9 V/m; Power Drift = 0.1 dB

Maximum value of SAR (measured) = 0.844 mW/g

Peak SAR (extrapolated) = 1.89 W/kg

**SAR(1 g) = 0.736 mW/g; SAR(10 g) = 0.303 mW/g**



0 dB = 0.844mW/g

**SAR MEASUREMENT PLOT 16**

Ambient Temperature  
Liquid Temperature  
Humidity

20.3 Degrees Celsius  
19.5 Degrees Celsius  
42 %

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Test Date: 26 July 2004

File Name: [Arm Held OFDM 2450 MHz Soriel Antenna B Bluetooth Off 26-07-04.da4](#)

DUT: Fujitsu Tablet Soriel with Atheros 11abg and Bluetooth; Type: WLL 4030-D50; Serial: MAC: 009096-6CAE3F

\* Communication System: OFDM 2450 MHz; Frequency: 2462 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $\sigma = 2.02933$ ; mho/m,  $\epsilon_r = 50.6999$ ;  $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.16, 4.16, 4.16)

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

**Channel 11 Test/Area Scan (61x81x1):** Measurement grid: dx=20mm, dy=20mm

Reference Value = 19.7 V/m; Power Drift = 0.1 dB

Maximum value of SAR (interpolated) = 0.801 mW/g

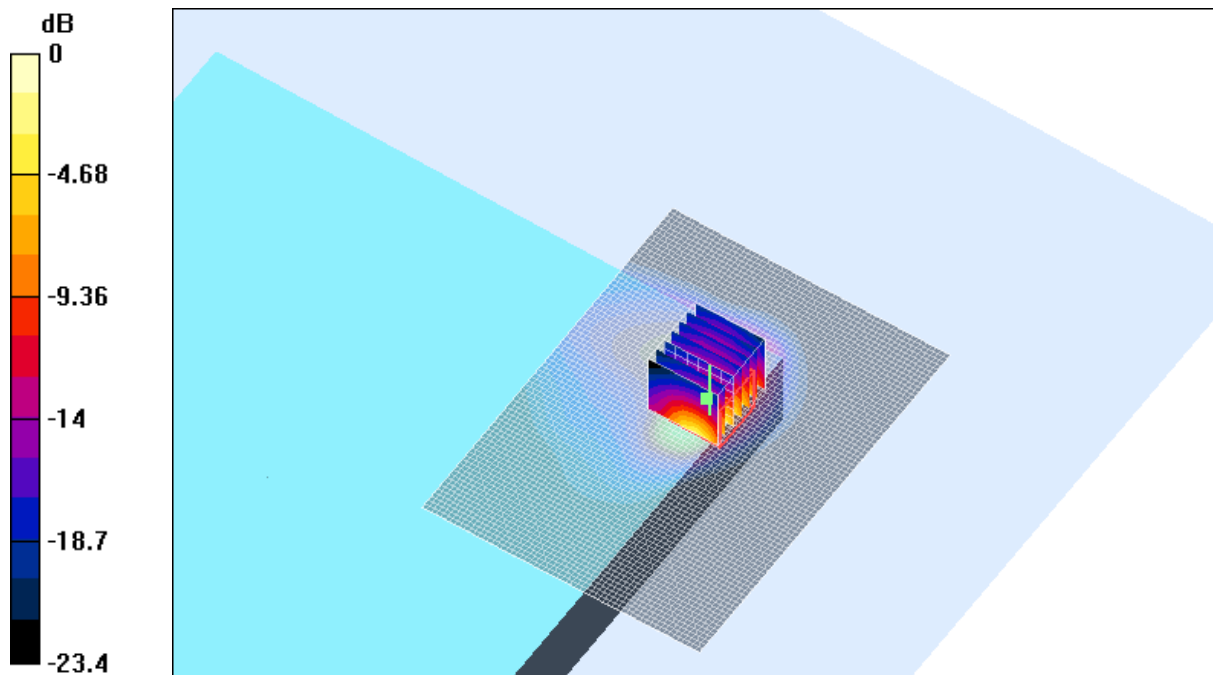
**Channel 11 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 19.7 V/m; Power Drift = 0.1 dB

Maximum value of SAR (measured) = 0.850 mW/g

Peak SAR (extrapolated) = 1.82 W/kg

**SAR(1 g) = 0.705 mW/g; SAR(10 g) = 0.288 mW/g**

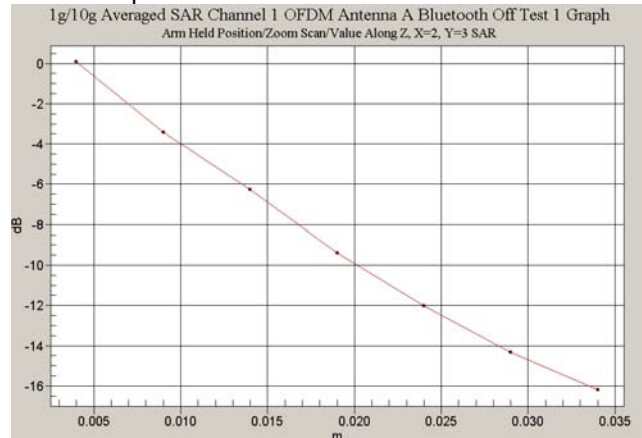


**SAR MEASUREMENT PLOT 17**

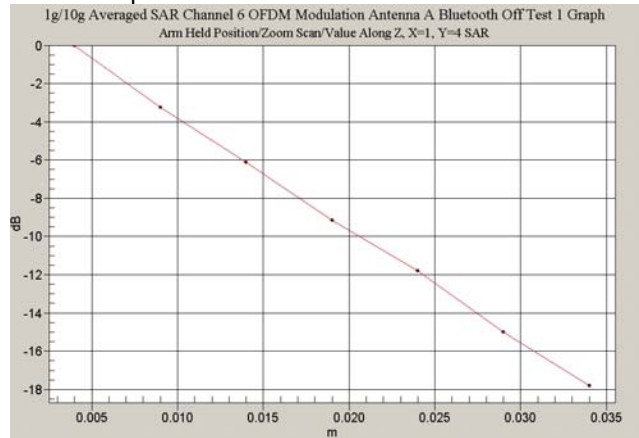
Ambient Temperature  
Liquid Temperature  
Humidity

20.3 Degrees Celsius  
19.5 Degrees Celsius  
42 %

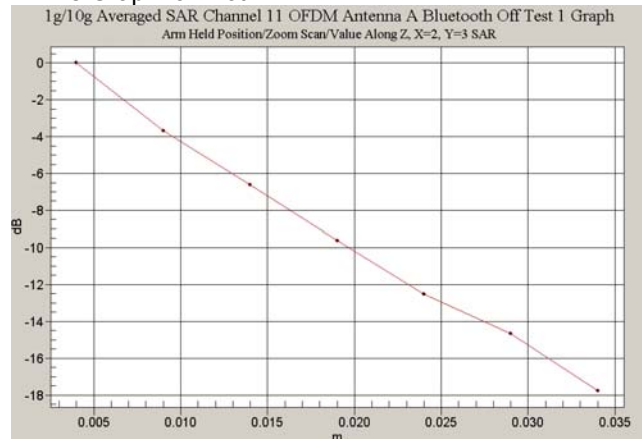
Z-Axis Graph for Plot 12



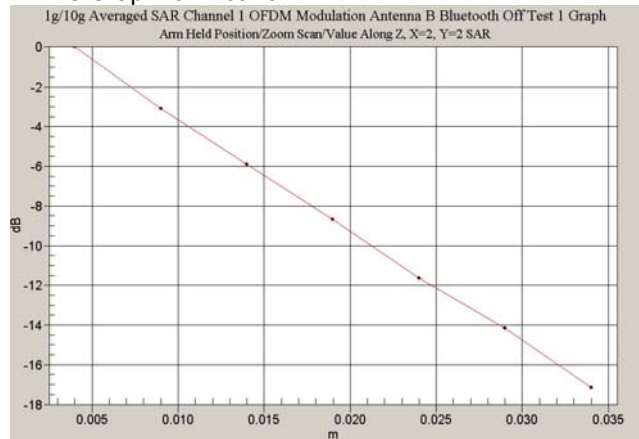
Z-Axis Graph for Plot 13



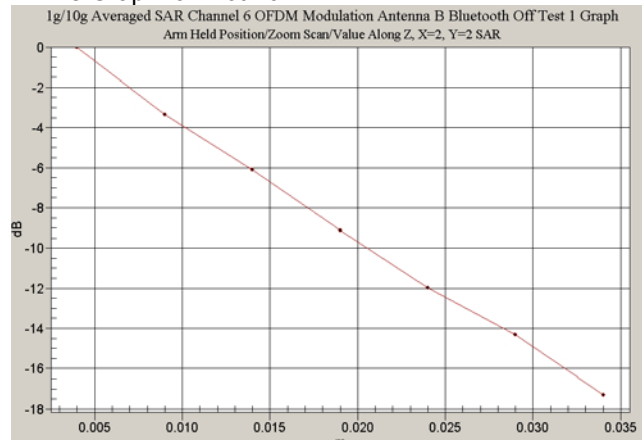
Z-Axis Graph for Plot 14



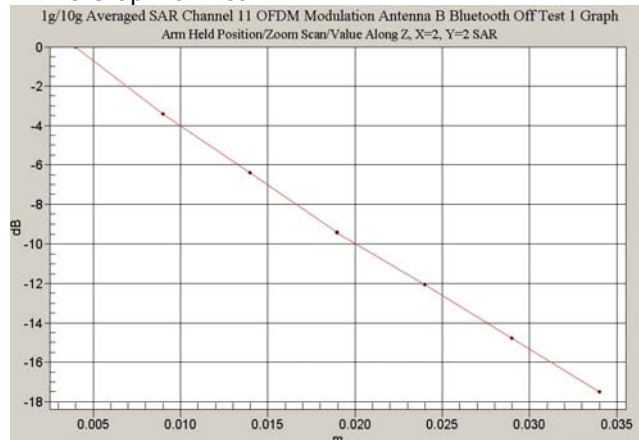
Z-Axis Graph for Plot 15



Z-Axis Graph for Plot 16



Z-Axis Graph for Plot 17



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Test Date: 24 July 2004

File Name: [Validation 2450 MHz \(DAE442 Probe1380\) 24-07-04.da4](#)

DUT: Dipole 2450 MHz; Type: DV2450V2; Serial: 724

\* Communication System: CW 2450 MHz; Frequency: 2450 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $\sigma = 1.86363$ ; mho/m,  $\epsilon_r = 37.8416$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.47, 4.47, 4.47)

- Phantom: SAM 22; Serial: 1260; Phantom section: Flat Section

**Channel 1 Test 6/Area Scan (61x61x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 98.4 V/m; Power Drift = 0.003 dB

Maximum value of SAR (interpolated) = 15.9 mW/g

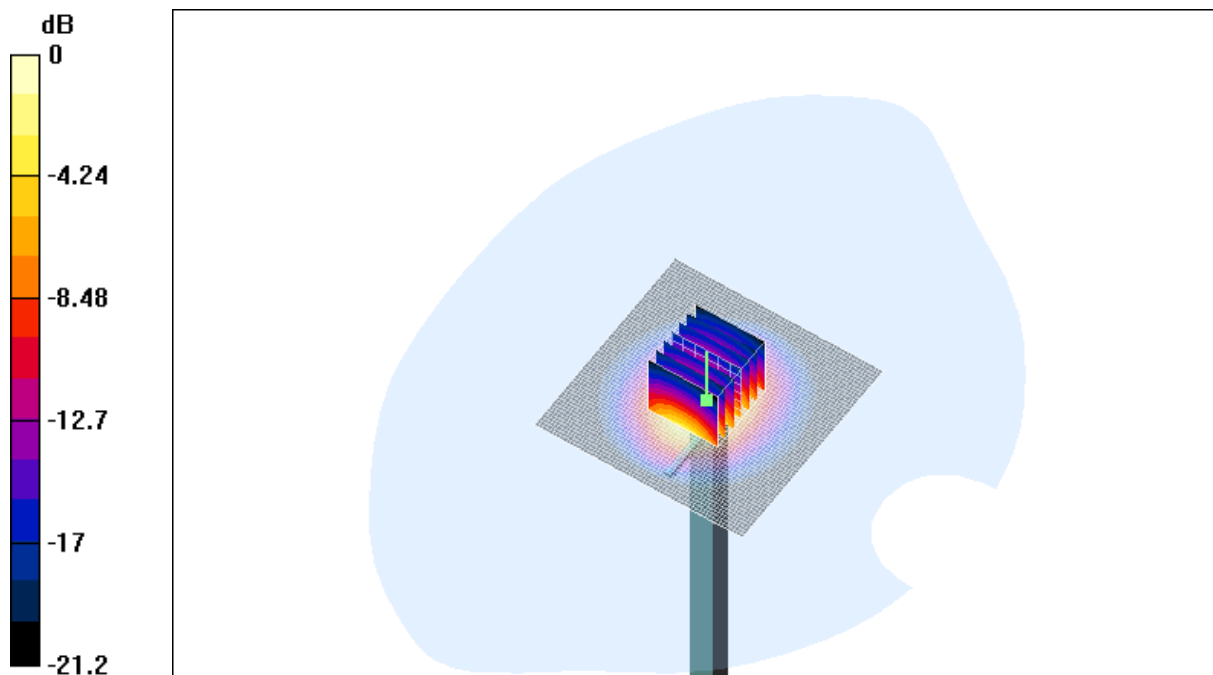
**Channel 1 Test 6/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 98.4 V/m; Power Drift = 0.003 dB

Maximum value of SAR (measured) = 15.8 mW/g

Peak SAR (extrapolated) = 27.8 W/kg

**SAR(1 g) = 13.9 mW/g; SAR(10 g) = 6.59 mW/g**



0 dB = 15.8mW/g

**SAR MEASUREMENT PLOT 18**

Ambient Temperature  
Liquid Temperature  
Humidity

20.1 Degrees Celsius  
19.7 Degrees Celsius  
46 %

Test Date: 26 July 2004

File Name: [Validation 2450 MHz \(DAE442 Probe1380\) 26-07-04.da4](#)

DUT: Dipole 2450 MHz; Type: DV2450V2; Serial: 724

\* Communication System: CW 2450 MHz; Frequency: 2450 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $\sigma = 1.84557$ ; mho/m,  $\epsilon_r = 38.6559$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.47, 4.47, 4.47)

- Phantom: SAM 22; Serial: 1260; Phantom section: Flat Section

**Channel 1 Test 3/Area Scan (61x61x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 98.4 V/m; Power Drift = -0.0005 dB

Maximum value of SAR (interpolated) = 15.8 mW/g

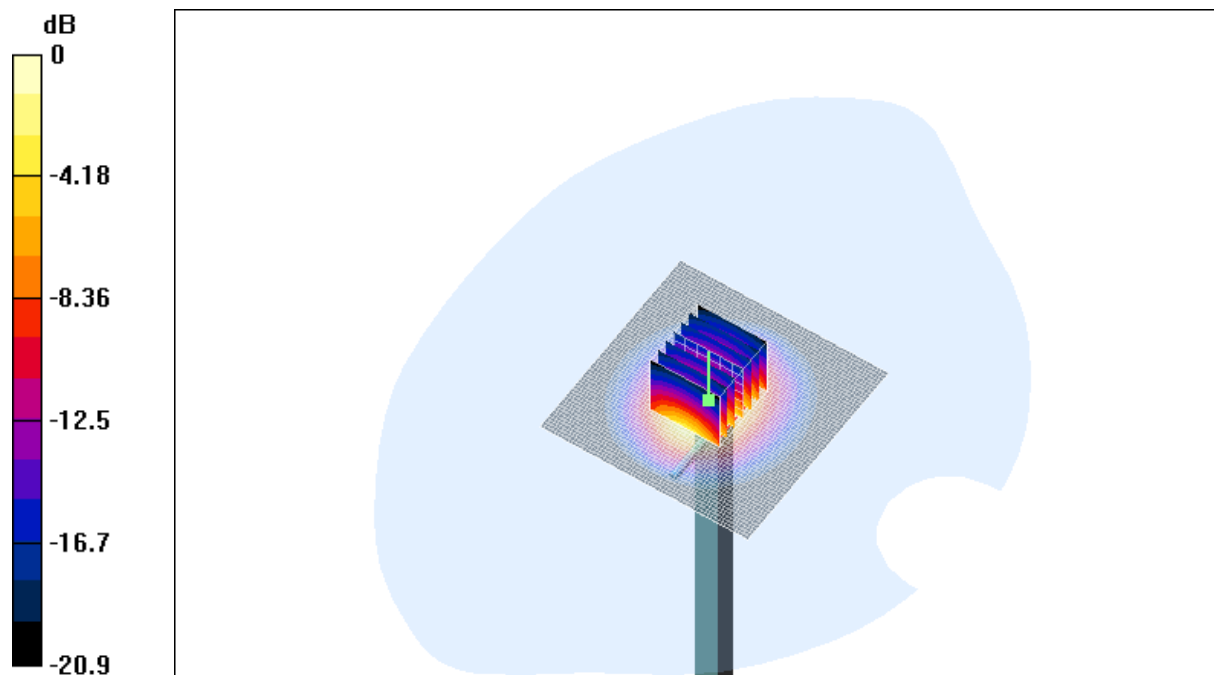
**Channel 1 Test 3/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 98.4 V/m; Power Drift = -0.0005 dB

Maximum value of SAR (measured) = 15.8 mW/g

Peak SAR (extrapolated) = 27.8 W/kg

**SAR(1 g) = 13.8 mW/g; SAR(10 g) = 6.56 mW/g**



0 dB = 15.8mW/g

**SAR MEASUREMENT PLOT 19**

Ambient Temperature  
Liquid Temperature  
Humidity

20.3 Degrees Celsius  
19.5 Degrees Celsius  
42 %



Test Date: 27 July 2004

File Name: [Validation 2450 MHz \(DAE442 Probe1380\) 27-07-04.da4](#)

DUT: Dipole 2450 MHz; Type: DV2450V2; Serial: 724

\* Communication System: CW 2450 MHz; Frequency: 2450 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $\sigma = 1.82972$ ; mho/m,  $\epsilon_r = 38.6858$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.47, 4.47, 4.47)

- Phantom: SAM 22; Serial: 1260; Phantom section: Flat Section

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

Reference Value = 98.3 V/m; Power Drift = -0.003 dB

Maximum value of SAR (interpolated) = 15.2 mW/g

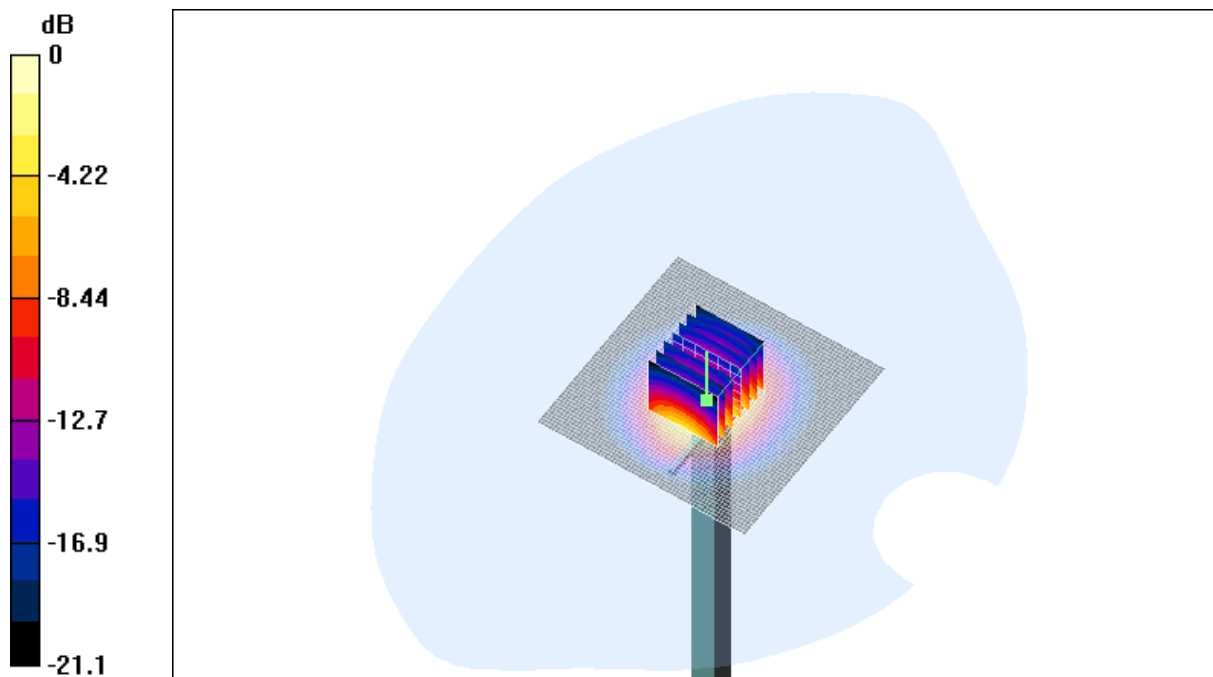
**Channel 1 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 98.3 V/m; Power Drift = -0.003 dB

Maximum value of SAR (measured) = 15 mW/g

Peak SAR (extrapolated) = 26.1 W/kg

**SAR(1 g) = 13.2 mW/g; SAR(10 g) = 6.3 mW/g**



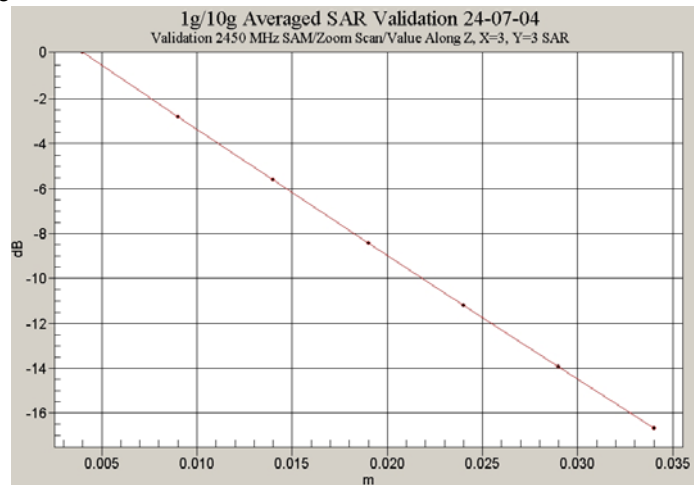
0 dB = 15mW/g

**SAR MEASUREMENT PLOT 20**

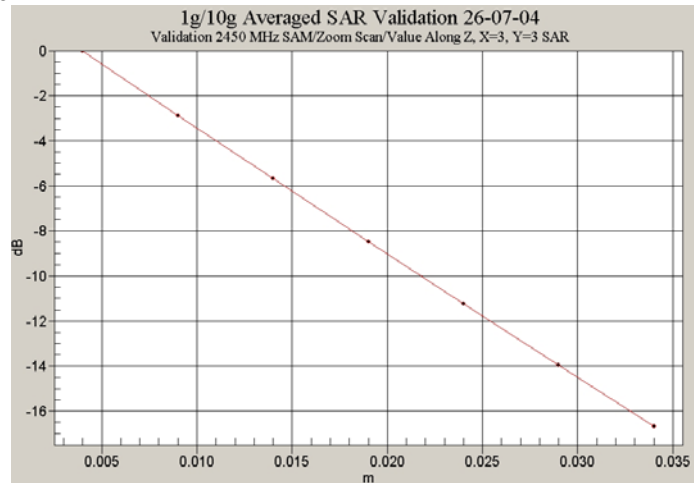
Ambient Temperature  
Liquid Temperature  
Humidity

20.3 Degrees Celsius  
19.7 Degrees Celsius  
34 %

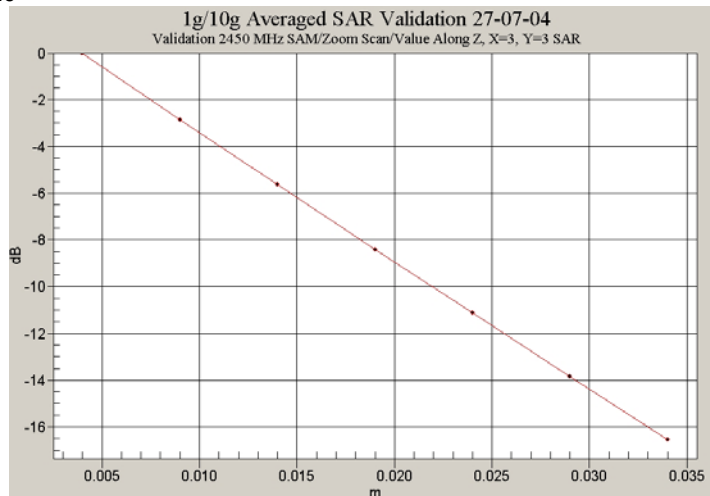
Z-Axis Graph for Plot 18



Z-Axis Graph for Plot 19



Z-Axis Graph for Plot 20



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## **APPENDIX C**

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

#### **Calibration Certificate Attachments**

- |  |         |
|--|---------|
| 1. 2.45GHz E-Field Probe Calibration Sheet | 8 Pages |
| 2. 2450MHz Dipole Calibration Sheet        | 6 pages |