

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

Plot 1	Lap Arm Held Position – Ant B – Pre-scan	CH#06
Plot 2	Lap Arm Held Position – Ant A	CH#01
Plot 3	Lap Arm Held Position – Ant A	CH#06
Plot 4	Lap Arm Held Position – Ant A	CH#11
Z-Axis Graphs	Z-Axis graphs for Plots 2 to 4	
Plot 5	Lap Arm Held Position – Ant B	CH#01
Plot 6	Lap Arm Held Position – Ant B	CH#06
Plot 7	Lap Arm Held Position – Ant B	CH#11
Z-Axis Graphs	Z-Axis graphs for Plots 5 to 7	
Plot 8	Edge on Position – Ant A	CH#01
Plot 9	Edge on Position – Ant A	CH#06
Plot 10	Edge on Position – Ant A	CH#11
Plot 11	Edge on Position – Ant B	CH#06
Z-Axis Graphs	Z-Axis graphs for Plots 8 to 11	
Plot 12	Tablet Position – Ant A – Pre-scan	CH#06
	WLAN with Bluetooth On	
Plot 13	Lap Arm Held Position With Blue tooth Ant A BTCH#40	CH#06

Table 23: 2450 MHz OFDM Band SAR Measurement Plot Numbers

Plot 14	Lap Arm Held Position – Ant A	CH#06
Plot 15	Lap Arm Held Position – Ant B	CH#06
Z-Axis Graphs	Z-Axis graphs for Plot 10-11	

Table 24: 2450MHz Validation Plot

Plot 16	Validation 2450MHz 24 th May 2005
Plot 17	Validation 2450MHz 25 th May 2005
Plot 18	Validation 2450MHz 13 th July 2005
Z-Axis Graphs	Z-Axis graphs for Plots 16-18

Test Date: 24 May 2005

File Name: [Arm Held DSSS 2450 MHz Antenna B Bluetooth Off Prescan 24-05-05.da4](#)

DUT: Fujitsu Tablet Sadalarn with Atheros 11abg; Type: WLL 4070; Serial: MAC:0011F5-496CC4

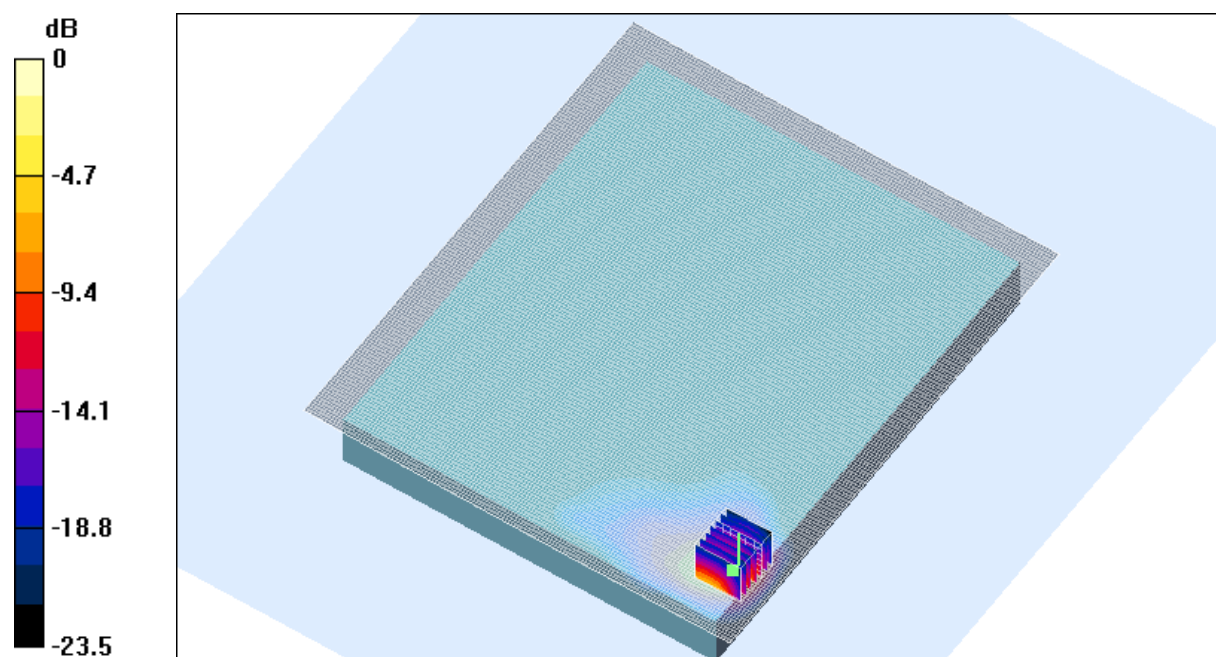
* Communication System: DSSS 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1

* Medium parameters used: $\sigma = 1.98237$; mho/m, $\epsilon_r = 52.6516$; $\rho = 1000 \text{ kg/m}^3$

- 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



0 dB = 1.78mW/g

SAR MEASUREMENT PLOT 1

Ambient Temperature

Liquid Temperature

Humidity

20.6 Degrees Celsius

19.8 Degrees Celsius

55.0 %

Test Date: 24 May 2005

File Name: [Arm Held DSSS 2450 MHz Antenna A Bluetooth Off 24-05-05.da4](#)

DUT: Fujitsu Tablet Sadalarn with Atheros 11abg; Type: WLL 4070; Serial: MAC:0011F5-496CC4

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

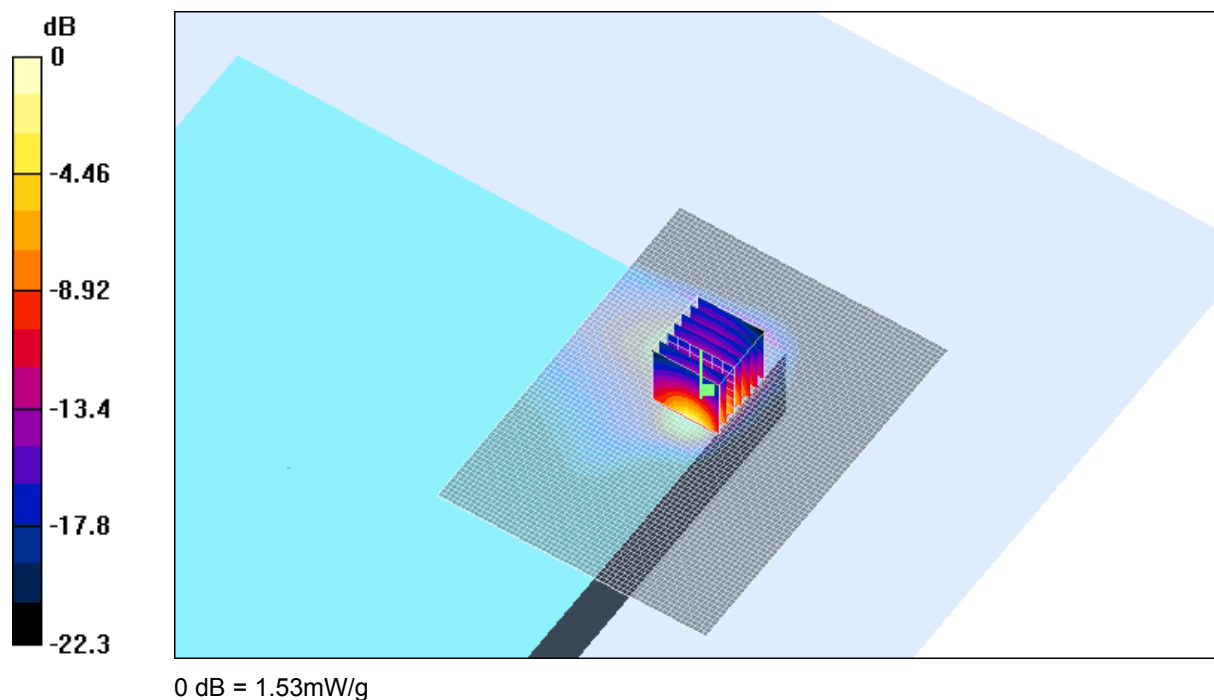
* Medium parameters used: $\sigma = 1.94855$; mho/m, $\epsilon_r = 52.7706$; $\rho = 1000 \text{ kg/m}^3$

- 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
Maximum value of SAR (interpolated) = 1.52 mW/g

Channel 1 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 24.5 V/m; Power Drift = 0.0 dB
Peak SAR (extrapolated) = 3.38 W/kg
SAR(1 g) = 1.36 mW/g; SAR(10 g) = 0.572 mW/g
Maximum value of SAR (measured) = 1.53 mW/g



SAR MEASUREMENT PLOT 2

Ambient Temperature
Liquid Temperature
Humidity

20.6 Degrees Celsius
19.8 Degrees Celsius
55.0 %

Test Date: 24 May 2005

File Name: [Arm Held DSSS 2450 MHz Antenna A Bluetooth Off 24-05-05.da4](#)

DUT: Fujitsu Tablet Sadalarn with Atheros 11abg; Type: WLL 4070; Serial: MAC:0011F5-496CC4

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

* Medium parameters used: $\sigma = 1.98237$; mho/m, $\epsilon_r = 52.6516$; $\rho = 1000 \text{ kg/m}^3$

- 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

Maximum value of SAR (interpolated) = 1.81 mW/g

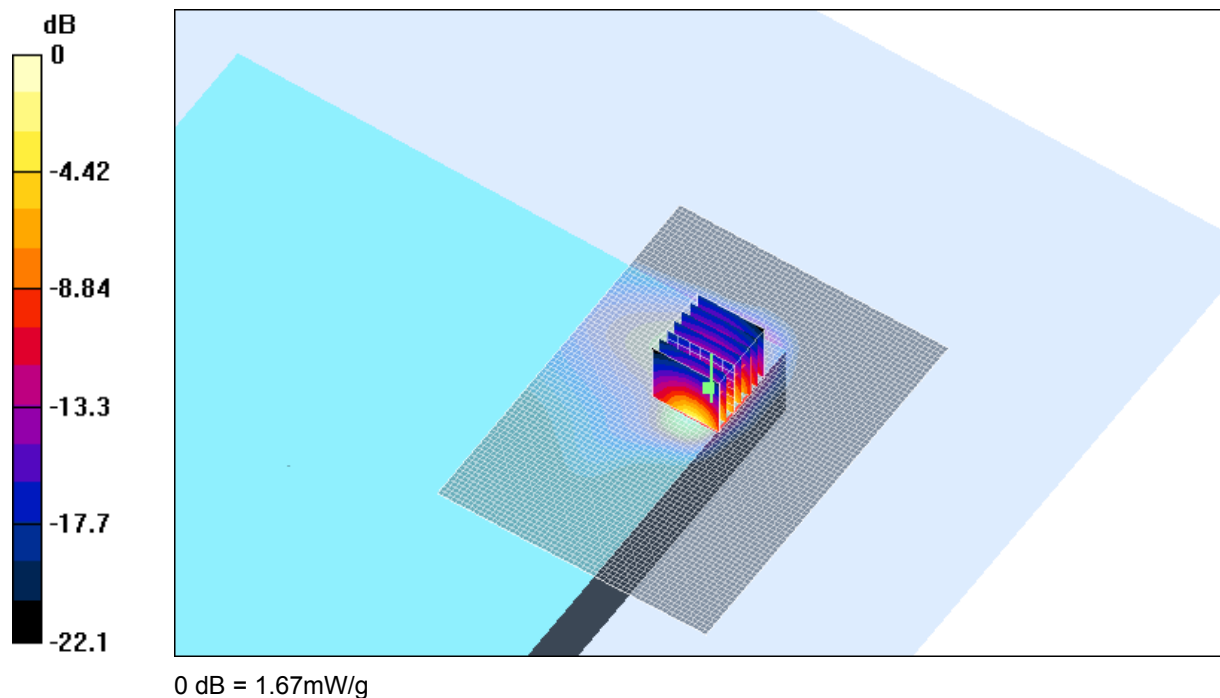
Channel 6 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 23.6 V/m; Power Drift = -0.2 dB

Peak SAR (extrapolated) = 3.75 W/kg

SAR(1 g) = 1.49 mW/g; SAR(10 g) = 0.618 mW/g

Maximum value of SAR (measured) = 1.67 mW/g



SAR MEASUREMENT PLOT 3

Ambient Temperature
Liquid Temperature
Humidity

20.6 Degrees Celsius
19.8 Degrees Celsius
55.0 %

Test Date: 24 May 2005

File Name: [Arm Held DSSS 2450 MHz Antenna A Bluetooth Off 24-05-05.da4](#)

DUT: Fujitsu Tablet Sadalarn with Atheros 11abg; Type: WLL 4070; Serial: MAC:0011F5-496CC4

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

* Medium parameters used: $\sigma = 2.00849$; mho/m, $\epsilon_r = 52.5548$; $\rho = 1000 \text{ kg/m}^3$

- 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

Maximum value of SAR (interpolated) = 1.63 mW/g

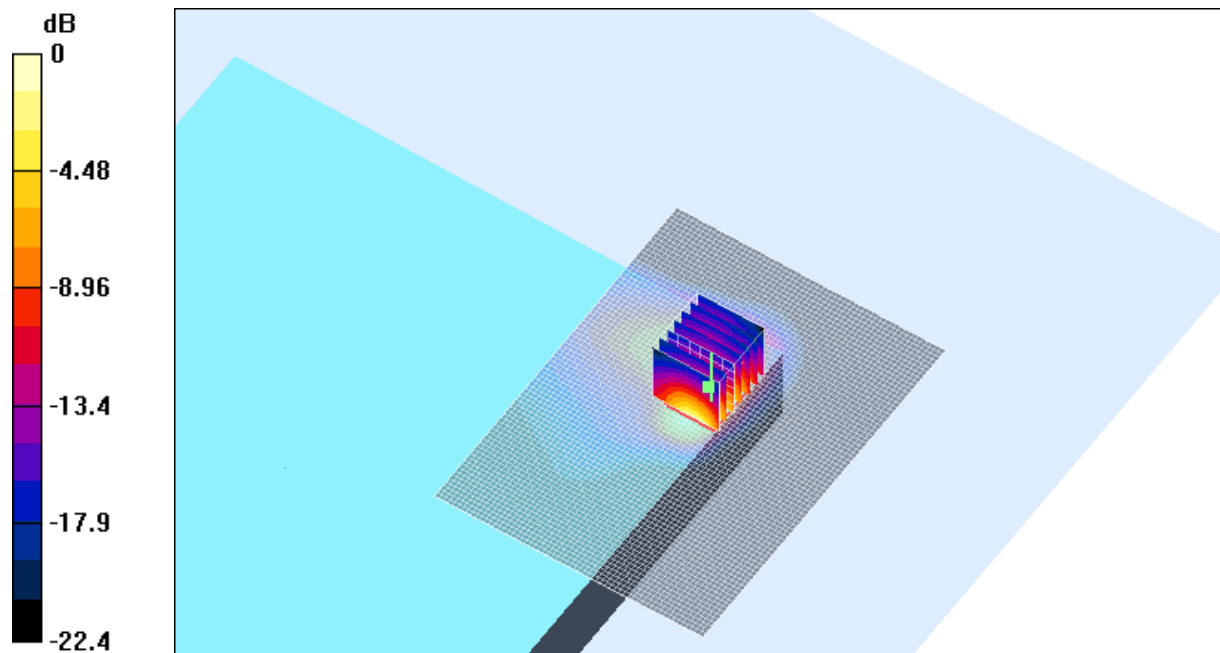
Channel 11 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 23.2 V/m; Power Drift = -0.2 dB

Peak SAR (extrapolated) = 3.28 W/kg

SAR(1 g) = 1.33 mW/g; SAR(10 g) = 0.564 mW/g

Maximum value of SAR (measured) = 1.48 mW/g



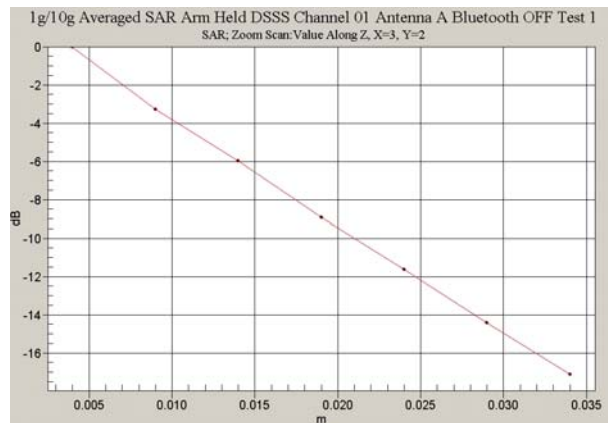
0 dB = 1.48mW/g

SAR MEASUREMENT PLOT 4

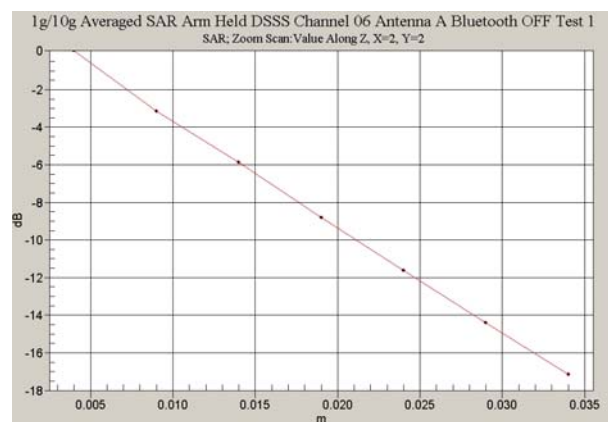
Ambient Temperature
Liquid Temperature
Humidity

20.6 Degrees Celsius
19.8 Degrees Celsius
55.0 %

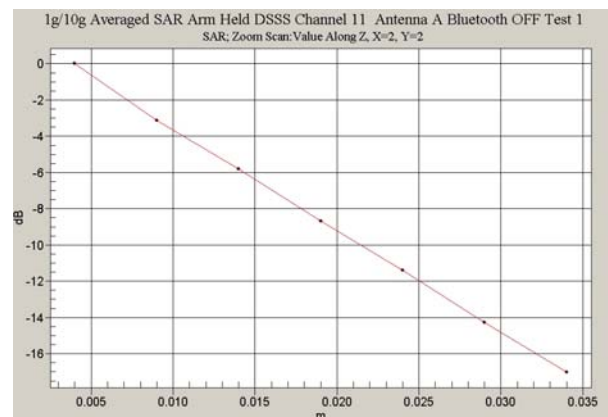
Z-Axis scan for plot 2



Z-Axis scan for plot 3



Z-Axis scan for plot 4



Test Date: 24 May 2005

File Name: [Arm Held DSSS 2450 MHz Antenna B Bluetooth Off 24-05-05.da4](#)

DUT: Fujitsu Tablet Sadalarn with Atheros 11abg; Type: WLL 4070; Serial: MAC:0011F5-496CC4

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

* Medium parameters used: $\sigma = 1.94855$; mho/m, $\epsilon_r = 52.7706$; $\rho = 1000 \text{ kg/m}^3$

- 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

Maximum value of SAR (interpolated) = 1.22 mW/g

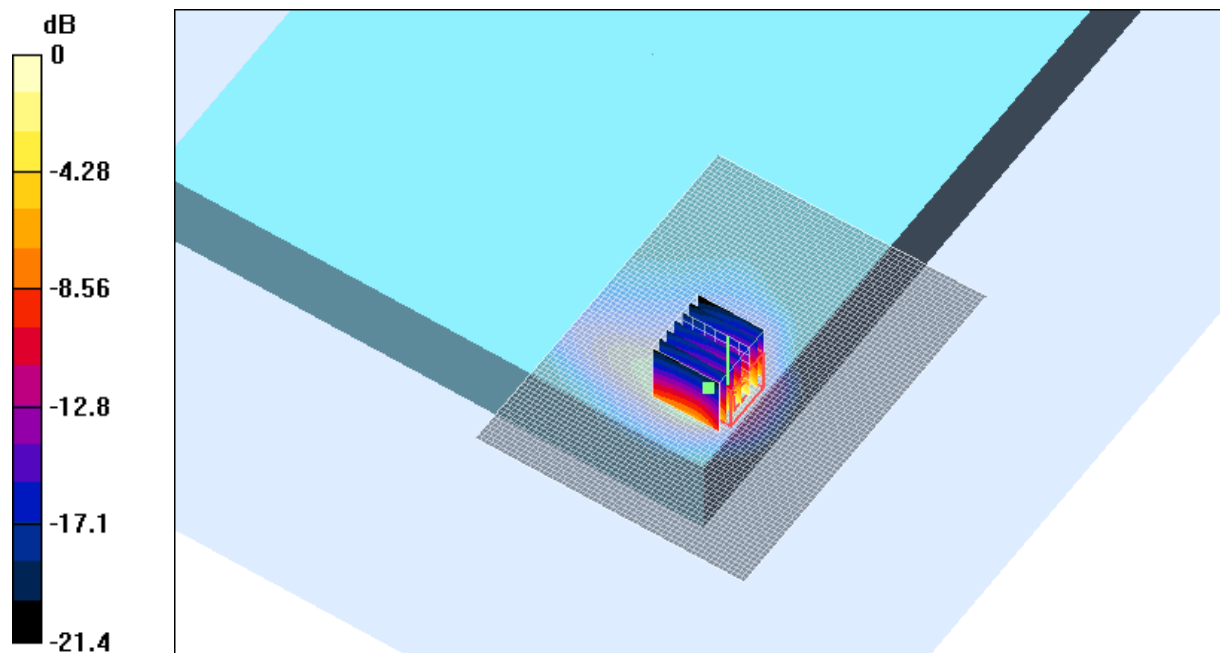
Channel 1 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 17 V/m; Power Drift = 0.3 dB

Peak SAR (extrapolated) = 3.7 W/kg

SAR(1 g) = 1.37 mW/g; SAR(10 g) = 0.541 mW/g

Maximum value of SAR (measured) = 1.52 mW/g



0 dB = 1.52mW/g

SAR MEASUREMENT PLOT 5

Ambient Temperature
Liquid Temperature
Humidity

20.6 Degrees Celsius
19.8 Degrees Celsius
55.0 %

Test Date: 24 May 2005

File Name: [Arm Held DSSS 2450 MHz Antenna B Bluetooth Off 24-05-05.da4](#)

DUT: Fujitsu Tablet Sadalarn with Atheros 11abg; Type: WLL 4070; Serial: MAC:0011F5-496CC4

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

* Medium parameters used: $\sigma = 1.98237$; mho/m, $\epsilon_r = 52.6516$; $\rho = 1000 \text{ kg/m}^3$

- 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

Maximum value of SAR (interpolated) = 1.3 mW/g

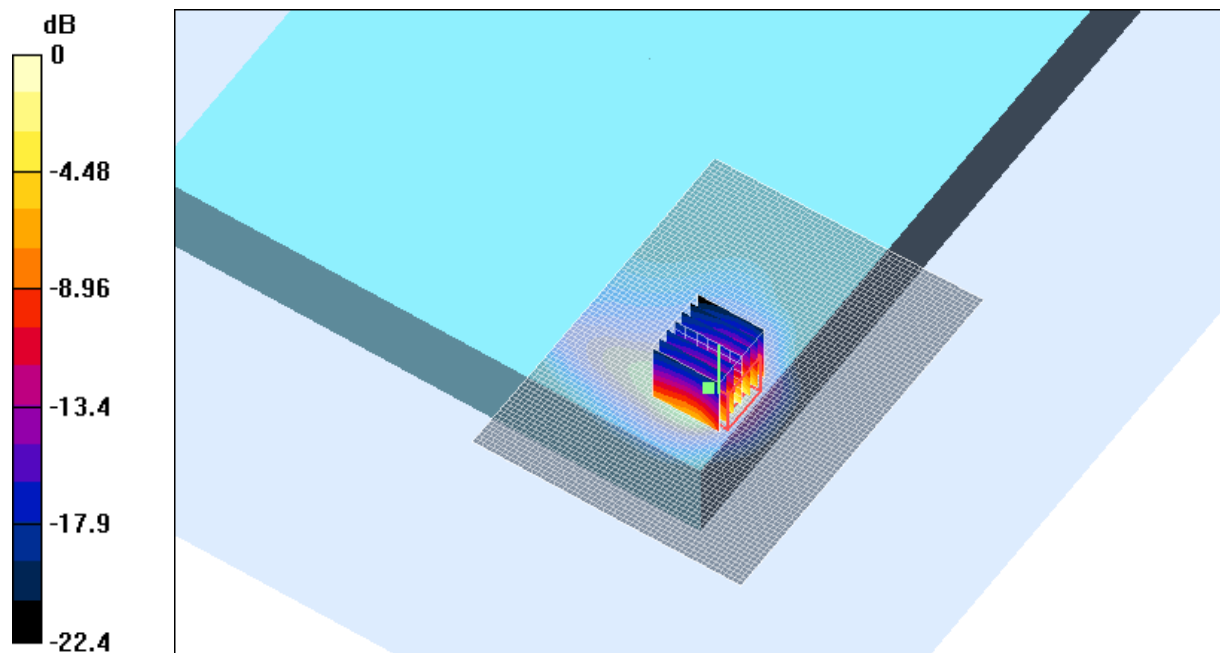
Channel 6 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 18.8 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 3.81 W/kg

SAR(1 g) = 1.42 mW/g; SAR(10 g) = 0.562 mW/g

Maximum value of SAR (measured) = 1.62 mW/g



0 dB = 1.62mW/g

SAR MEASUREMENT PLOT 6

Ambient Temperature
Liquid Temperature
Humidity

20.6 Degrees Celsius
19.8 Degrees Celsius
55.0 %

Test Date: 24 May 2005

File Name: [Arm Held DSSS 2450 MHz Antenna B Bluetooth Off 24-05-05.da4](#)

DUT: Fujitsu Tablet Sadalarn with Atheros 11abg; Type: WLL 4070; Serial: MAC:0011F5-496CC4

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

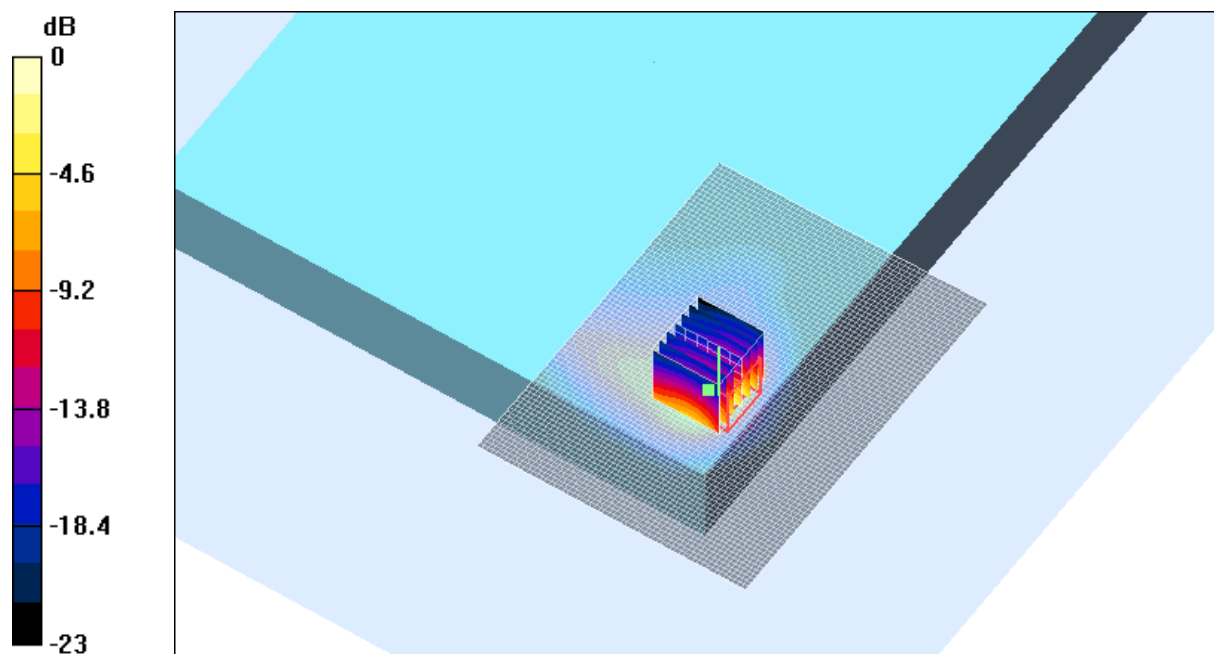
* Medium parameters used: $\sigma = 2.00849$; mho/m, $\epsilon_r = 52.5548$; $\rho = 1000 \text{ kg/m}^3$

- 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 2/Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 1.39 mW/g

Channel 11 Test 2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 21 V/m; Power Drift = -0.1 dB
Peak SAR (extrapolated) = 3.46 W/kg
SAR(1 g) = 1.25 mW/g; SAR(10 g) = 0.494 mW/g
Maximum value of SAR (measured) = 1.46 mW/g



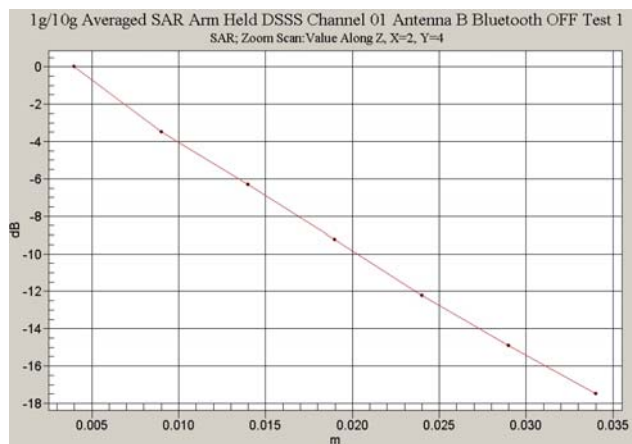
0 dB = 1.46mW/g

SAR MEASUREMENT PLOT 7

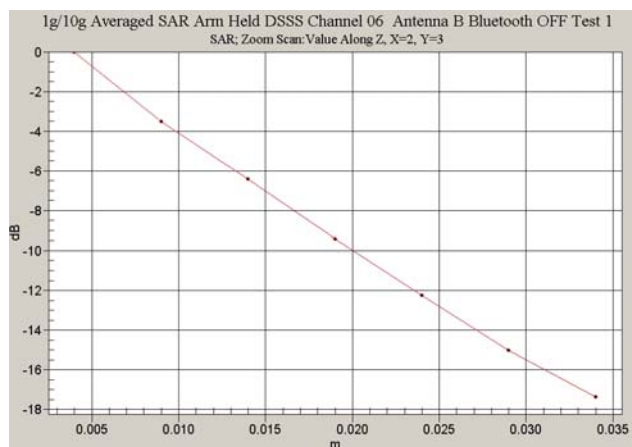
Ambient Temperature
Liquid Temperature
Humidity

20.6 Degrees Celsius
19.8 Degrees Celsius
55.0 %

Z-Axis scan for plot 5



Z-Axis scan for plot 6



Z-Axis scan for plot 7

