

APPENDIX B PLOTS OF THE 2450MHZ 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 30: 2450 MHz DSSS Band SAR Measurement Plot Numbers

Plot 1	Lap Arm Held Position – Ant A – Pre-scan	CH#06
Plot 2	Lap Arm Held Position – Ant B – Pre-scan	CH#06
Plot 3	Lap Arm Held Position – Ant B	CH#01
Plot 4	Lap Arm Held Position – Ant B	CH#06
Plot 5	Lap Arm Held Position – Ant B	CH#11
Z-Axis Graphs	Z-Axis graphs for Plots 3 to 5	
Plot 6	Tablet – Ant B – Pre-scan	CH#06
Plot 7	Tablet Position – Ant A	CH#01
Plot 8	Tablet Position – Ant A	CH#06
Plot 9	Tablet Position – Ant A	CH#11
Z-Axis Graphs	Z-Axis graphs for Plots 7 to 9	
Plot 10	Edge On Position – Ant A	CH#01
Plot 11	Edge On Position – Ant A	CH#06
Plot 12	Edge On Position – Ant A	CH#11
Z-Axis Graphs	Z-Axis graphs for Plots 10 – 12	
Plot 13	Edge On Position – Ant B	CH#01
Plot 14	Edge On Position – Ant B	CH#06
Plot 15	Edge On Position – Ant B	CH#11
Z-Axis Graphs	Z-Axis graphs for Plots 13 to 15	
	WLAN with Bluetooth On	
Plot 16	Lap Arm Held Position Ant B	CH#11
Plot 17	Tablet Position Ant A	CH#06
Z-Axis Graphs	Z-Axis graphs for Plots 16 to 17	

Plot 18	Edge On Position Ant A	CH#01
Plot 19	Edge On Position Ant B	CH#06
Z-axis graphs	Z-Axis graphs for Plots 18 to 19	

Table 31: 2450 MHz OFDM Band SAR Measurement Plot Numbers

Plot 20	Tablet Position – Ant A	CH#06
Plot 21	Lap Arm Held Position – Ant B	CH#06
Z-Axis Graphs	Z-Axis graphs for Plot 20 to 21	

Table 32: 2450MHz Validation Plot

Plot 22	Validation 2450MHz 9 th August 2006
Plot 23	Validation 2450MHz 10 th August 2006
Z-Axis Graphs	Z-Axis graphs for Plots 22 & 23

Test Date: 09 August 2006

File Name: [Arm Held DSSS 2.45 GHz Antenna A Bluetooth On Prescan 09-08-06.da4](#)

DUT: Fujitsu Tablet Osian with Atheros XB62 11abg Module; Type: XB62; Serial: MAC:0011F5-D82570

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

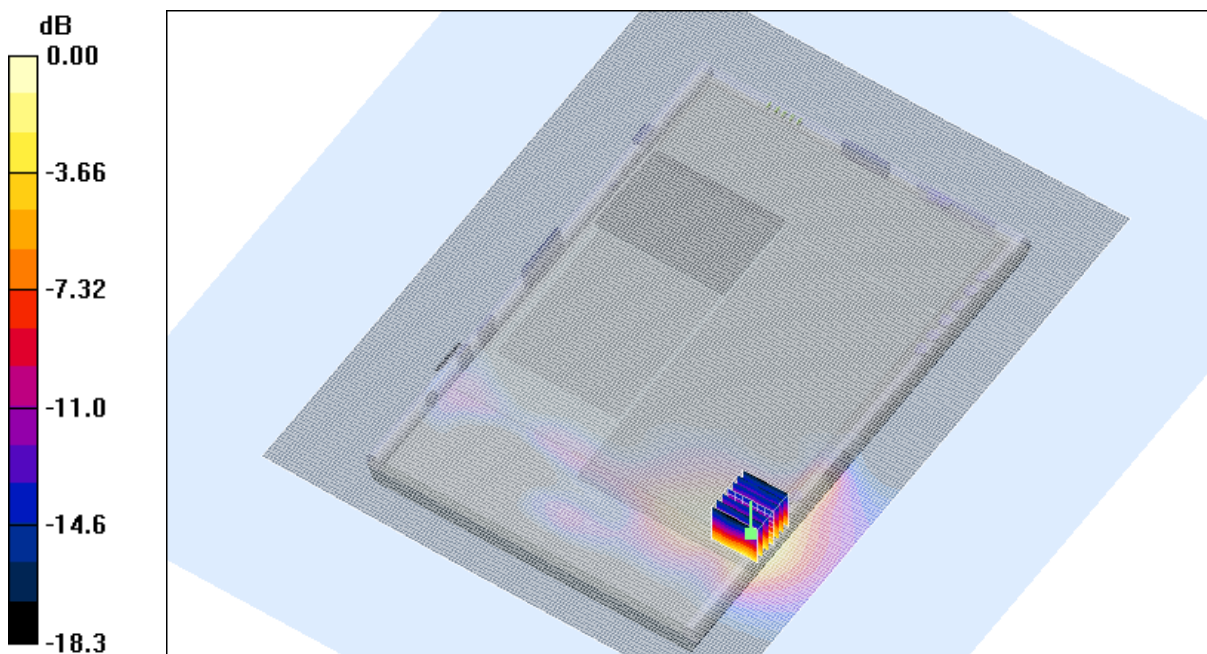
* Medium parameters used: $\sigma = 1.98489$ mho/m, $\epsilon_r = 50.7729$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(4.2, 4.2, 4.2)

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

Channel 06 Test/Area Scan (151x201x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.316 mW/g



0 dB = 0.323mW/g

SAR MEASUREMENT PLOT 1

Ambient Temperature
Liquid Temperature
Humidity

20.4 Degrees Celsius
19.9 Degrees Celsius
36.0 %

Test Date: 09 August 2006

File Name: [Arm Held DSSS 2.45 GHz Antenna B Bluetooth Off Prescan 09-08-06.da4](#)

DUT: Fujitsu Tablet Osian with Atheros XB62 11abg Module; Type: XB62; Serial: MAC:0011F5-D82570

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

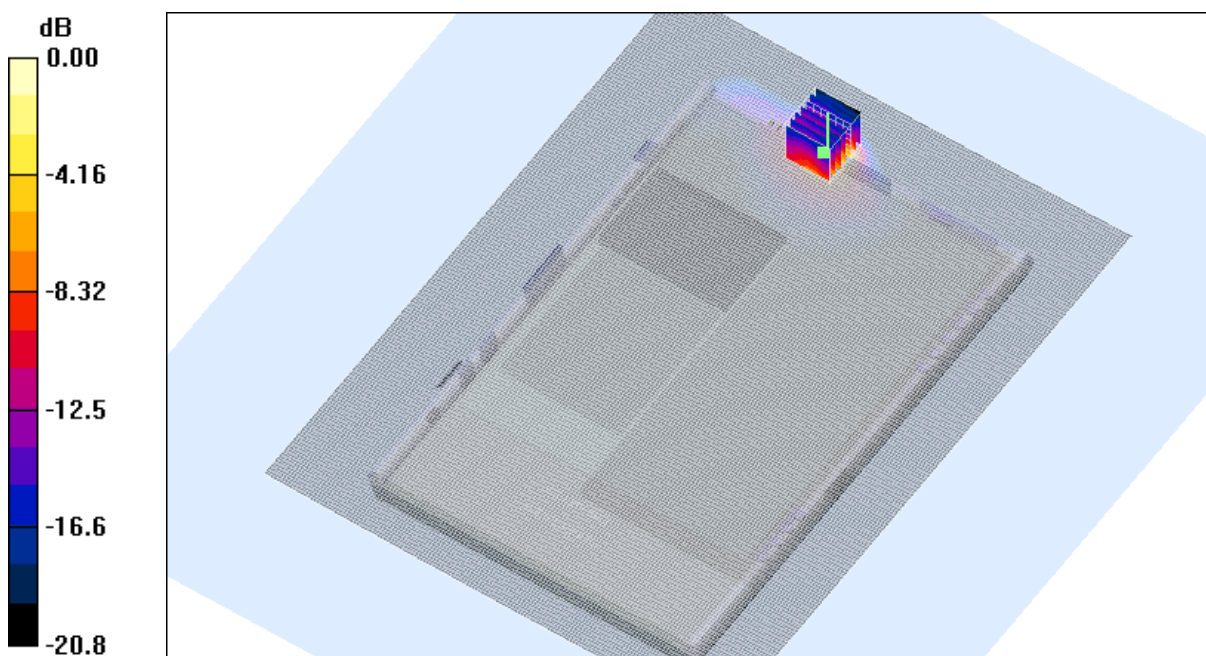
* Medium parameters used: $\sigma = 1.98489$ mho/m, $\epsilon_r = 50.7729$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(4.2, 4.2, 4.2)

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

Channel 06 Test/Area Scan (151x201x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.510 mW/g



0 dB = 0.612mW/g

SAR MEASUREMENT PLOT 2

Ambient Temperature
Liquid Temperature
Humidity

20.4 Degrees Celsius
19.9 Degrees Celsius
36.0 %

Test Date: 09 August 2006

File Name: [Arm Held DSSS 2.45 GHz Antenna B Bluetooth Off 09-08-06.da4](#)

DUT: Fujitsu Tablet Osian with Atheros XB62 11abg Module; Type: XB62; Serial: MAC:0011F5-D82570

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

* Medium parameters used: $\sigma = 1.94134$ mho/m, $\epsilon_r = 50.9075$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(4.2, 4.2, 4.2)

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

Channel 01 Test/Area Scan (81x61x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.922 mW/g

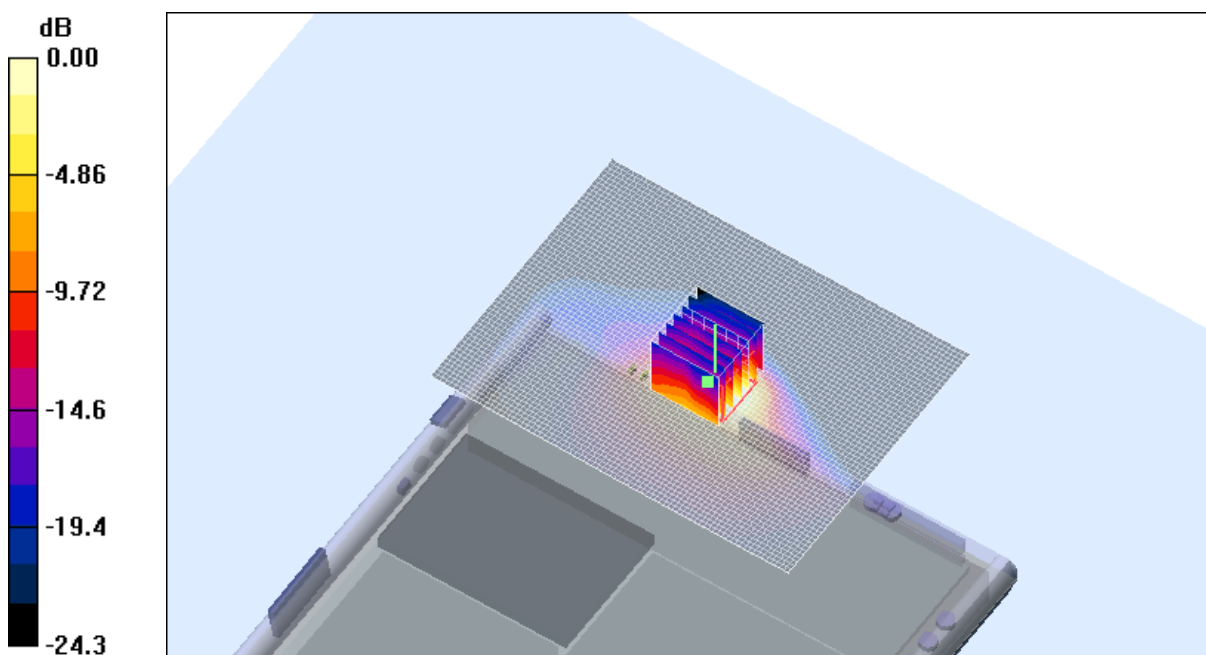
Channel 01 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 21.6 V/m; Power Drift = 0.200 dB

Peak SAR (extrapolated) = 1.42 W/kg

SAR(1 g) = 0.525 mW/g; SAR(10 g) = 0.219 mW/g

Maximum value of SAR (measured) = 0.595 mW/g



0 dB = 0.595mW/g

SAR MEASUREMENT PLOT 3

Ambient Temperature
Liquid Temperature
Humidity

20.4 Degrees Celsius
19.9 Degrees Celsius
36.0 %

Test Date: 09 August 2006

File Name: [Arm Held DSSS 2.45 GHz Antenna B Bluetooth Off 09-08-06.da4](#)

DUT: Fujitsu Tablet Osian with Atheros XB62 11abg Module; Type: XB62; Serial: MAC:0011F5-D82570

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

* Medium parameters used: $\sigma = 1.98489$ mho/m, $\epsilon_r = 50.7729$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(4.2, 4.2, 4.2)

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

Channel 06 Test/Area Scan (81x61x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.880 mW/g

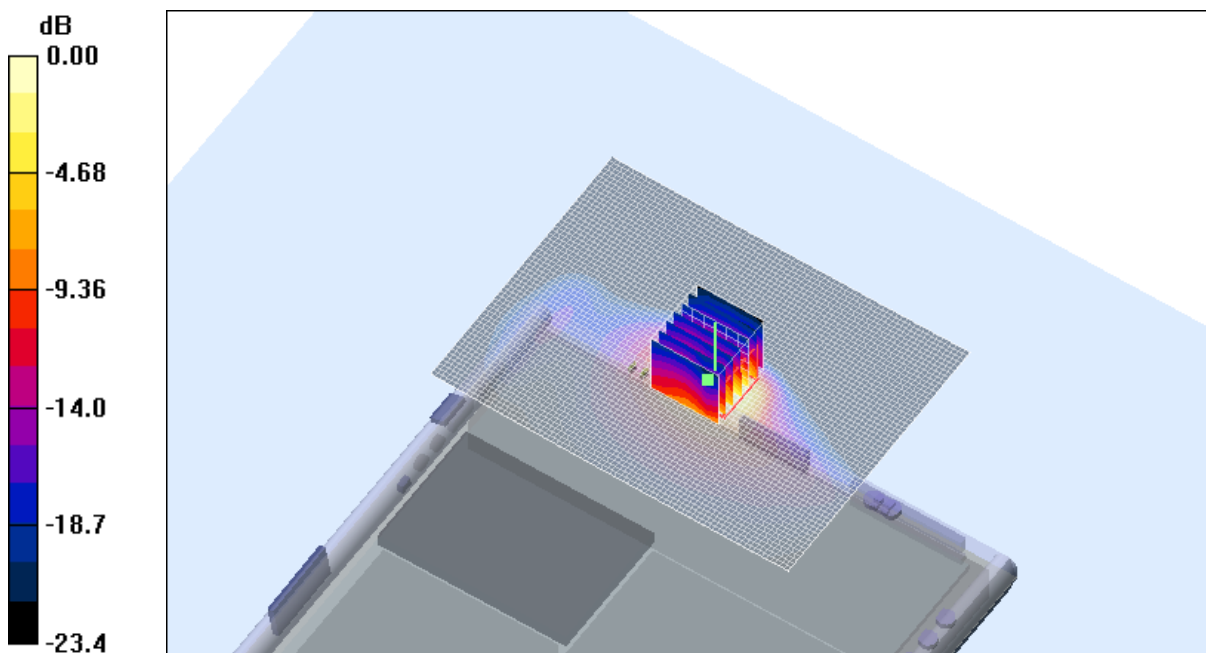
Channel 06 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 25.1 V/m; Power Drift = -0.039 dB

Peak SAR (extrapolated) = 1.72 W/kg

SAR(1 g) = 0.641 mW/g; SAR(10 g) = 0.257 mW/g

Maximum value of SAR (measured) = 0.822 mW/g



0 dB = 0.822mW/g

SAR MEASUREMENT PLOT 4

Ambient Temperature
Liquid Temperature
Humidity

20.4 Degrees Celsius
19.9 Degrees Celsius
36.0 %

Test Date: 09 August 2006

File Name: [Arm Held DSSS 2.45 GHz Antenna B Bluetooth Off 09-08-06.da4](#)

DUT: Fujitsu Tablet Osian with Atheros XB62 11abg Module; Type: XB62; Serial: MAC:0011F5-D82570

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

* Medium parameters used: $\sigma = 2.02666$ mho/m, $\epsilon_r = 50.632$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(4.2, 4.2, 4.2)

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

Channel 11 Test/Area Scan (81x61x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 1.12 mW/g

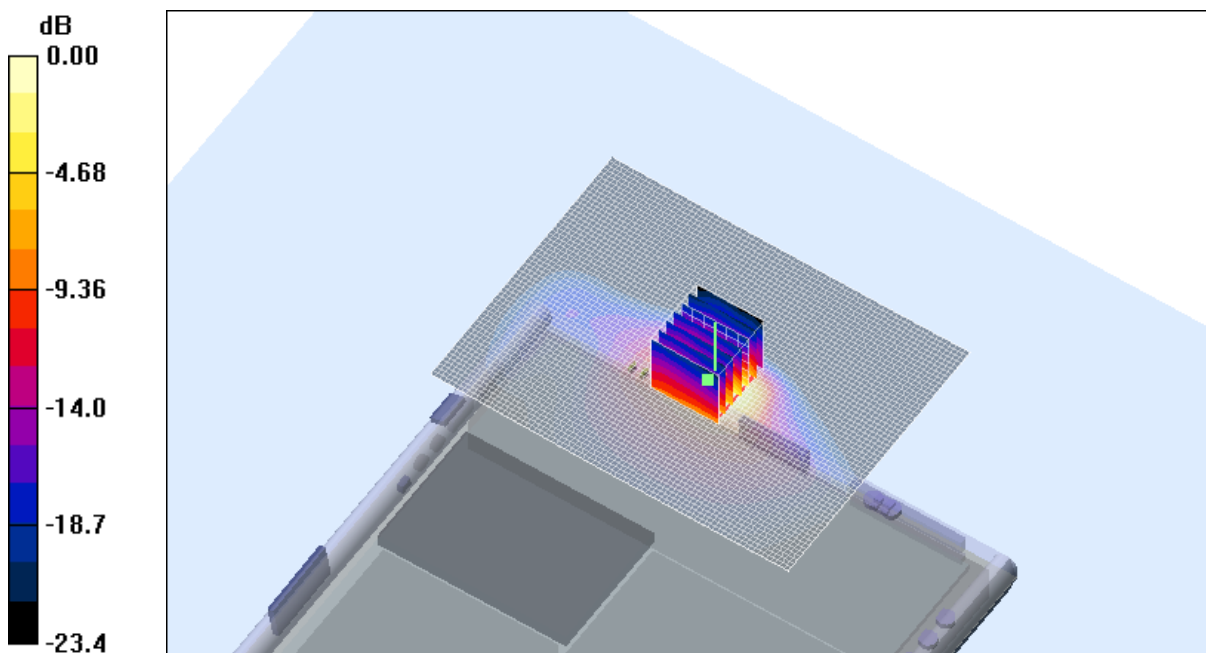
Channel 11 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 23.5 V/m; Power Drift = -0.046 dB

Peak SAR (extrapolated) = 2.74 W/kg

SAR(1 g) = 1 mW/g; SAR(10 g) = 0.386 mW/g

Maximum value of SAR (measured) = 1.18 mW/g



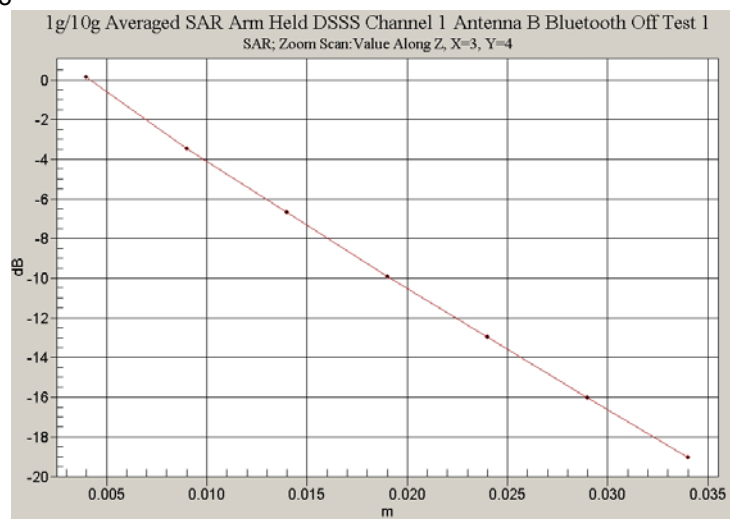
0 dB = 1.18mW/g

SAR MEASUREMENT PLOT 5

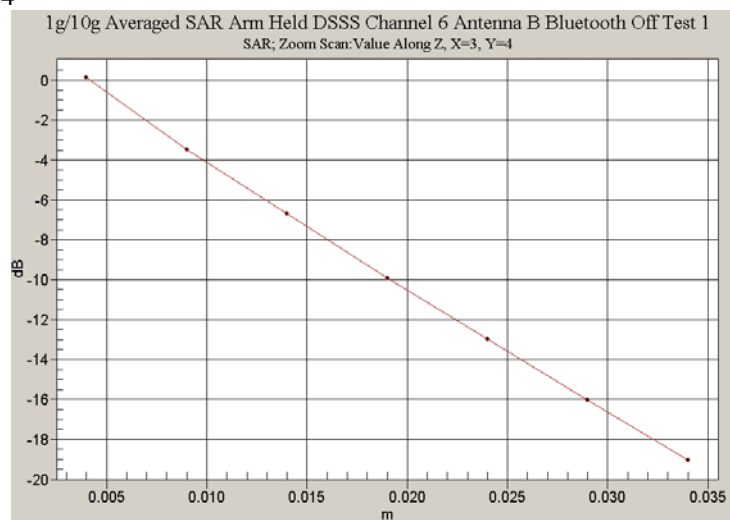
Ambient Temperature
Liquid Temperature
Humidity

20.4 Degrees Celsius
19.9 Degrees Celsius
36.0 %

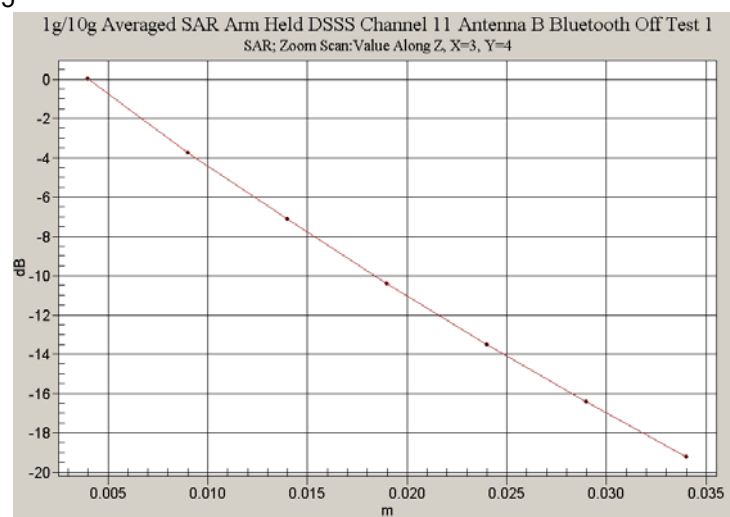
Z-Axis Graph for plot 3



Z-Axis Graph for Plot 4



Z-Axis Graph for Plot 5



Test Date: 10 August 2006

File Name: [Tablet DSSS 2.45 GHz Antenna B Bluetooth Off Prescan 10-08-06.da4](#)

DUT: Fujitsu Tablet Osian with Atheros XB62 11abg Module; Type: XB62; Serial: MAC:0011F5-D82570

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

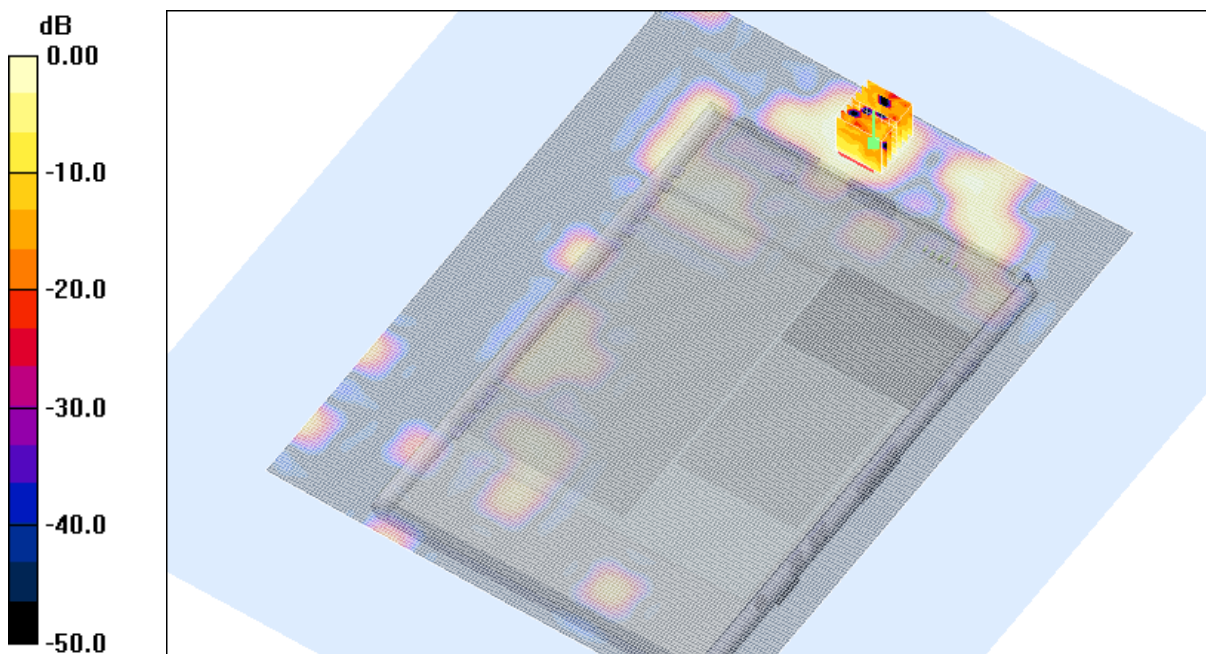
* Medium parameters used: $\sigma = 1.92062$ mho/m, $\epsilon_r = 51.279$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(4.2, 4.2, 4.2)

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

Channel 06 Test/Area Scan (151x201x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.011 mW/g



0 dB = 0.010mW/g

SAR MEASUREMENT PLOT 6

Ambient Temperature

21.4 Degrees Celsius

Liquid Temperature

20.1 Degrees Celsius

Humidity

36.0 %

Test Date: 10 August 2006

File Name: [Tablet DSSS 2.45 GHz Ant A Bluetooth Off 10-08-06B.da4](#)

DUT: Fujitsu Tablet Osian with Atheros XB62 11abg Module; Type: XB62; Serial: MAC:0011F5-D82570

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

* Medium parameters used: $\sigma = 1.86965$ mho/m, $\epsilon_r = 51.3974$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(4.2, 4.2, 4.2)

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

Channel 01 Test/Area Scan (101x81x1): Measurement grid: dx=15mm, dy=15mm

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

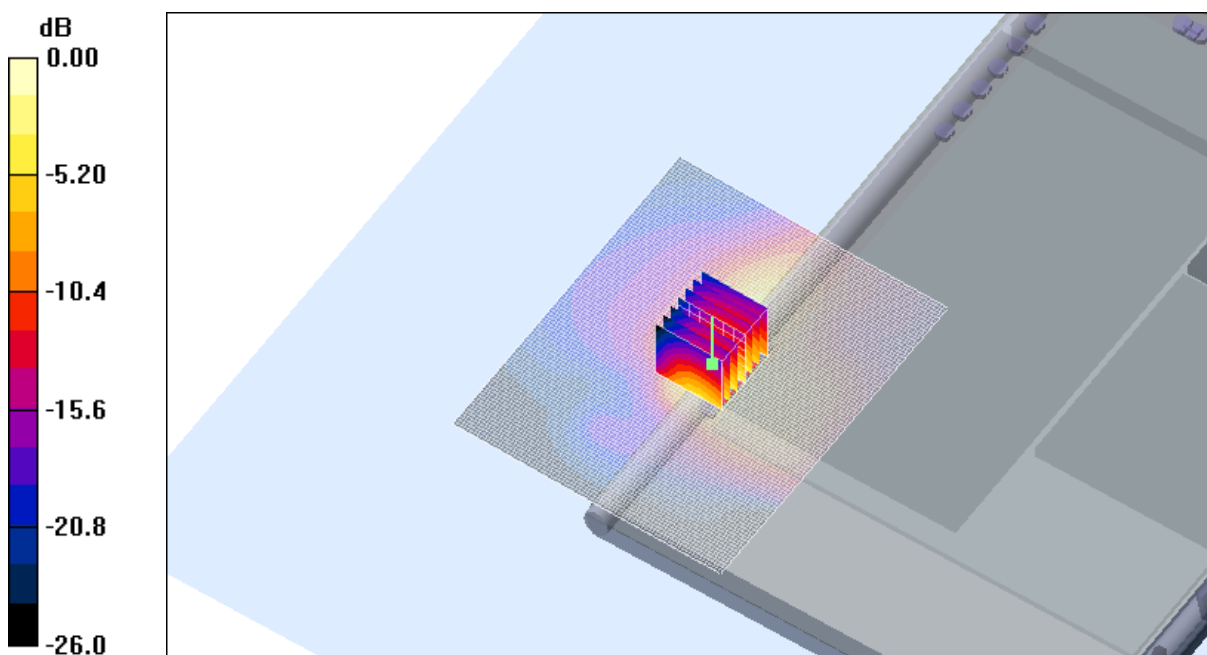
Channel 01 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 18.7 V/m; Power Drift = -0.261 dB

Peak SAR (extrapolated) = 2.46 W/kg

SAR(1 g) = 0.991 mW/g; SAR(10 g) = 0.447 mW/g

Maximum value of SAR (measured) = 1.09 mW/g



0 dB = 1.09mW/g

SAR MEASUREMENT PLOT 7

Ambient Temperature
Liquid Temperature
Humidity

20.2 Degrees Celsius
19.9 Degrees Celsius
37.0 %

Test Date: 10 August 2006

File Name: [Tablet DSSS 2.45 GHz Ant A Bluetooth Off 10-08-06B.da4](#)

DUT: Fujitsu Tablet Osian with Atheros XB62 11abg Module; Type: XB62; Serial: MAC:0011F5-D82570

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

* Medium parameters used: $\sigma = 1.92062$ mho/m, $\epsilon_r = 51.279$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(4.2, 4.2, 4.2)

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

Channel 06 Test/Area Scan (101x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.26 mW/g

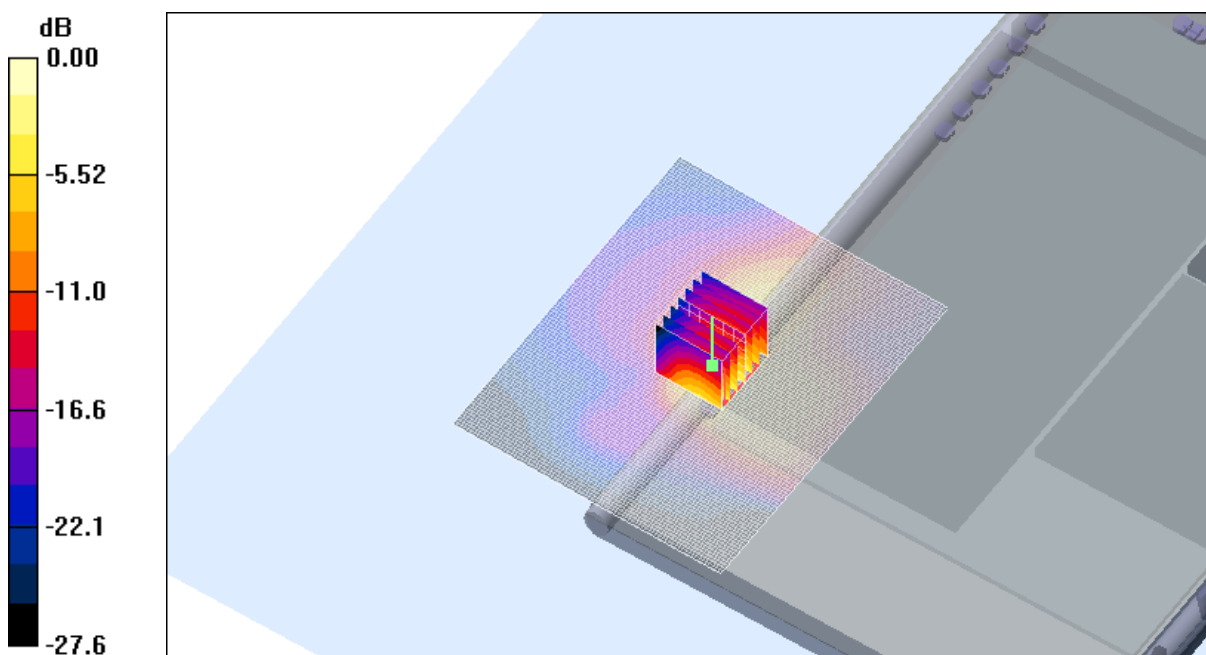
Channel 06 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 17.6 V/m; Power Drift = 0.154 dB

Peak SAR (extrapolated) = 2.71 W/kg

SAR(1 g) = 1.11 mW/g; SAR(10 g) = 0.491 mW/g

Maximum value of SAR (measured) = 1.25 mW/g



0 dB = 1.25mW/g

SAR MEASUREMENT PLOT 8

Ambient Temperature
Liquid Temperature
Humidity

20.2 Degrees Celsius
19.9 Degrees Celsius
37.0 %

Test Date: 10 August 2006

File Name: [Tablet DSSS 2.45 GHz Ant A Bluetooth Off 10-08-06.da4](#)

DUT: Fujitsu Tablet Osian with Atheros XB62 11abg Module; Type: XB62; Serial: MAC:0011F5-D82570

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

* Medium parameters used: $\sigma = 1.96782$ mho/m, $\epsilon_r = 51.1462$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(4.2, 4.2, 4.2)

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

Channel 11 Test/Area Scan (101x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.26 mW/g

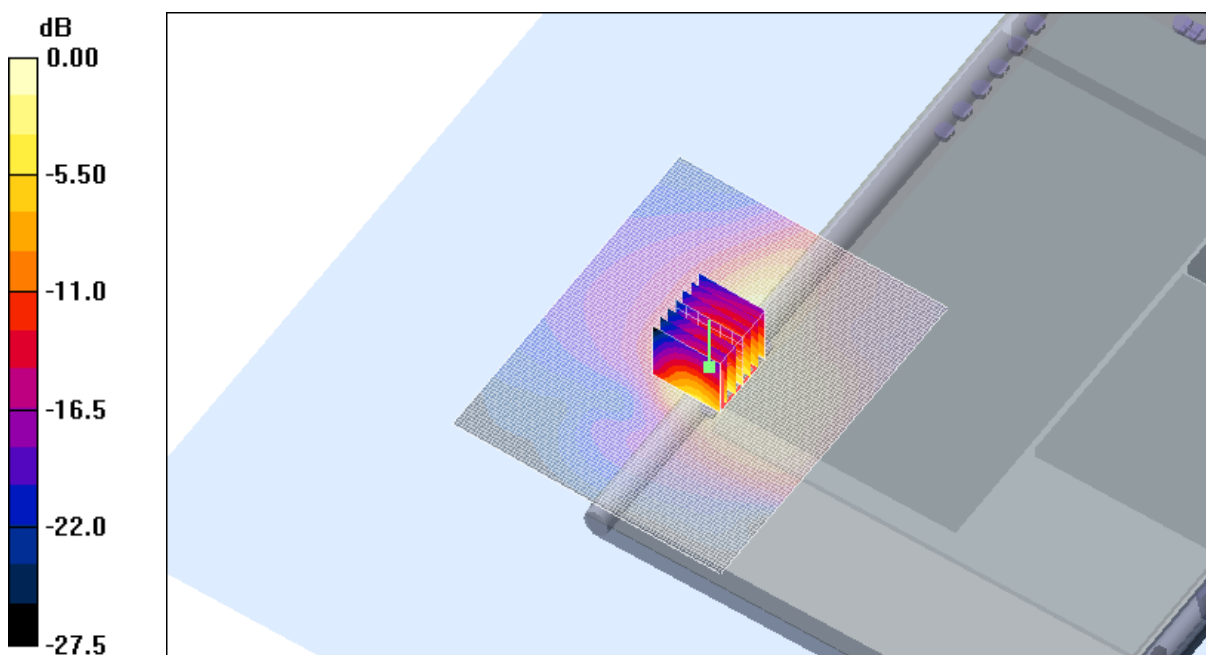
Channel 11 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 17.0 V/m; Power Drift = -0.087 dB

Peak SAR (extrapolated) = 2.53 W/kg

SAR(1 g) = 1.01 mW/g; SAR(10 g) = 0.461 mW/g

Maximum value of SAR (measured) = 1.14 mW/g



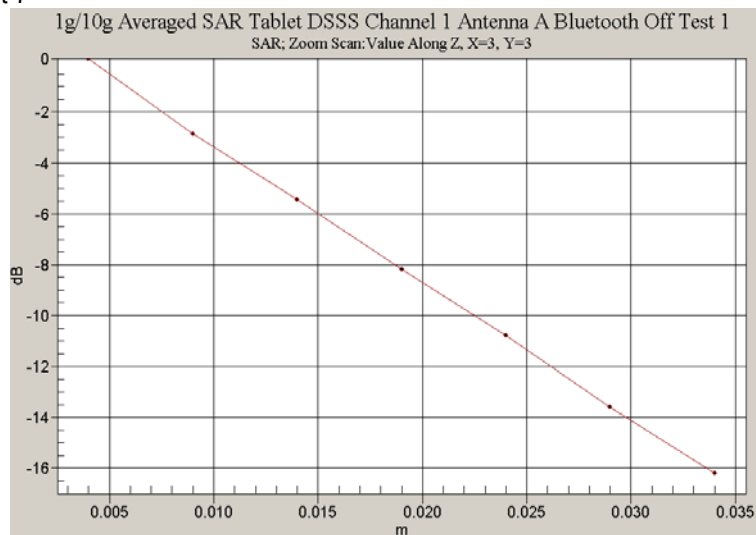
0 dB = 1.14mW/g

SAR MEASUREMENT PLOT 9

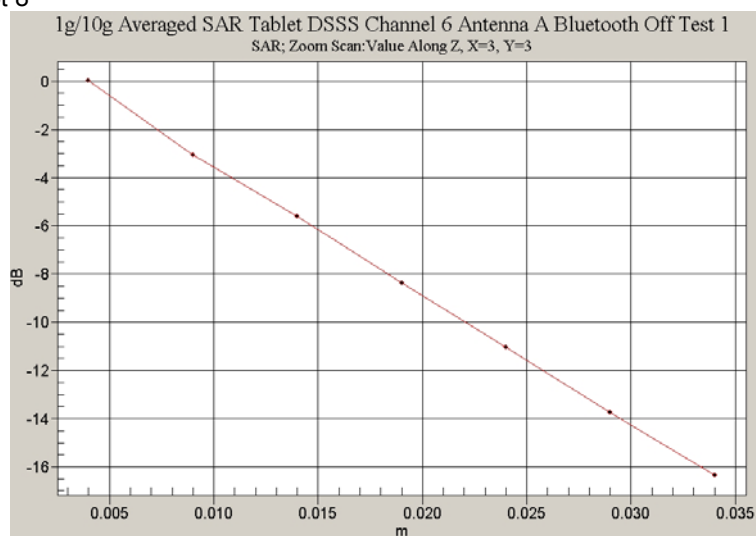
Ambient Temperature
Liquid Temperature
Humidity

20.2 Degrees Celsius
19.9 Degrees Celsius
37.0 %

Z-Axis Graph for Plot 7



Z-Axis Graph for Plot 8



Z-Axis Graph for Plot 9

